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THE
ILLUSTRATED



PREMIUM LIST.

COMPLIMENTS OF

Cincinnati

See Page —



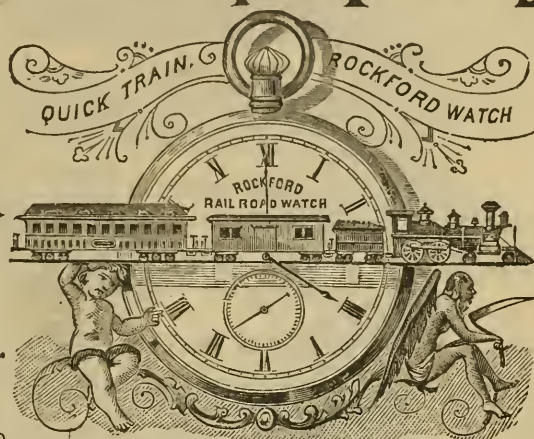


CHARLES COOK,

Wholesale and Retail Dealer in

Watches, Clocks & Fine Jewelry,

AGENT FOR THE
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Rockford Quick
TRAIN
WATCHES.



GOLD MEDAL
Awarded at
11th Industrial Exposition,
For These
Movements.

Having had a practical experience and having a thorough knowledge of all kinds of Watches and Movements, I am prepared to Repair all kinds of Watches in the neatest manner, with a satisfactory guarantee.

CHARLES COOK,

N. E. COR. FIFTH & SMITH, CINCINNATI, O.

U. S. COAST AND GEODETIC SURVEY OFFICE.

Washington, November 12th, 1883.

PROFESSOR J. E. HILGARD,

Superintendent C. & G. Survey, Washington, D. C.

Dear Sir:—I have the honor to report in response to your inquiry made of me at the request of Mr. J. Karr, Jeweler, Washington, D. C., that Rockford Watches Nos. 63671 and 66219 were used by me in the verification of the North Boundary of Wyoming Territory in 1882 and subsequently in the Astronomical work of the survey of the East Coast of Florida in 1883. The very satisfactory manner in which these time pieces did their work is a matter of record in this office. I have the honor to be

Your Obedient Servant,

B. A. COLONNA, Asst. Coast Survey.

Approved, J. E. HILGARD, Superintendent.

U. S. COAST AND GEODETIC SURVEY OFFICE.

Washington, November 24th, 1883.

Mr. J. Karr,

Dear Sir:—I have tested the two Rockford Watches you supplied us with and find that they go so well as to deserve the name of Pocket Chronometers. I chiefly tested them as to their compensation for temperature. By keeping them for several days in the heated Dividing Room they were subjected to a temperature of nearly 100 degrees F. Comparing them with the Ball. I find by the record that one had a greatest error of 2. Sec.: the other 3. Sec. In a refrigerator of about 52 degrees F. both ran within 2 seconds. This shows how very nearly these balances are compensated. In carrying them, thus subjecting them to great irregular vibrations, I found that I could rely on them within 4 or 5 seconds.

Yours truly,

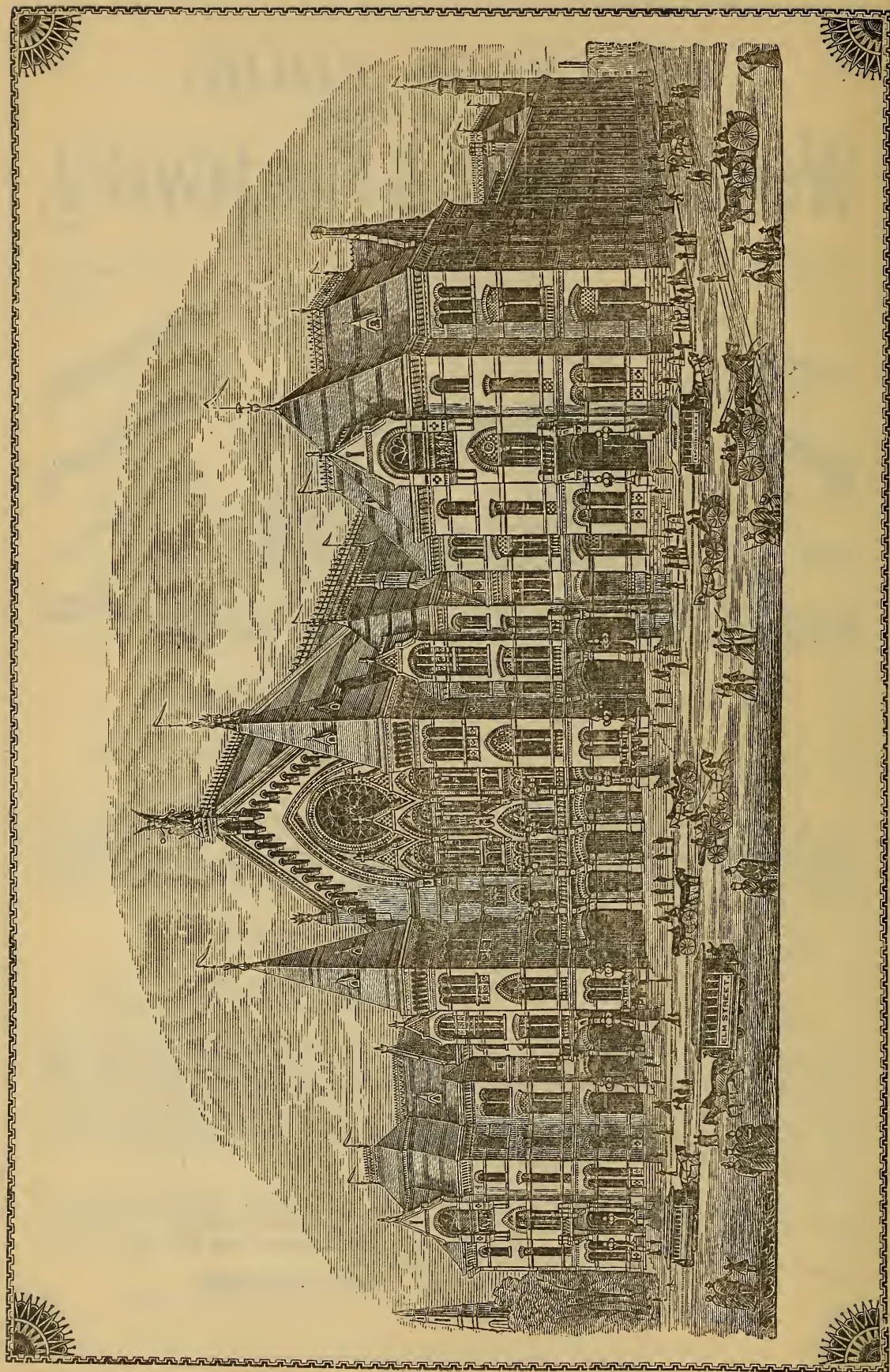
G. M. SAEGMULLER.

Mr. SAEGMULLER is, and for many years has been, an attache of the U. S. Coast and Geodetic Survey, is the chief Mechanician of that department, and as such, has charge of all Chronometers, Watches etc., employed in that branch of the Government Service.

Railroad Men, Miners, Physicians, Lumbermen and all who need a close Timer in hard Service can rely on the

ROCKFORD WATCH,

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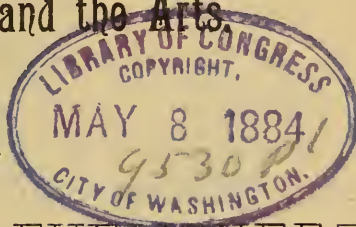
CINCINNATI

Industrial Exposition

OF

Manufacturers Products and the Arts.

1883.



C. S. WIXOM & CO., PUBLISHERS.

CINCINNATI:
HENRY HEINEMAN & Co., STEAM PRINTING HOUSE,
— 168 Vine Street. —

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THE ELEVENTH
Cincinnati Industrial Exposition

—UNDER THE DIRECTION OF THE—

Board of Commissioners Appointed by the Chamber of Commerce,
Board of Trade, and Ohio Mechanic's Institute,

—OPENED—

→*WEDNESDAY, SEPTEMBER 5TH,*←

—AND CONTINUED UNTIL—

→*SATURDAY, OCTOBER 6TH,*←

—1883.—

—THE NATIONAL EXPOSITION OF INDUSTRY AND ART.—



—*ELEVENTH*—

Cincinnati Industrial Exposition,

—1883.—



* Board of Commissioners. *

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JNO. E. BELL,
LAWRENCE MENDENHALL,
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OHIO MECHANICS INSTITUTE.

HUGH McCOLLUM,
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JOHN B. HEICH, Assistant Secretary.

❖ELEVETH❖

Cincinnati Industrial Exposition,

❖ Standing Committees. ❖

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SECRETARY,	-	-	-	-	-	WM. H. STEWART.
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AND OFFICER OF THE DAY.						

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NOTE.

The Publishers of the Premium List, are indebted to Messrs. J. A. Scarlett, A. N. Marquis and J. F. Blackburn, for data and statistics relating to the commercial interests and industries of Cincinnati.

The tables compiled by the Board of Trade, under the supervision of Mr. Blackburn, are the most available source from which correct aggregates can be secured of the amount of business transacted and the respective values of the multifarious industries of Cincinnati.



CINCINNATI,

The Industrial and Commercial Metropolis

— OF THE —

WEST AND SOUTH.

The story of the rise and growth of Cincinnati into her present proud position as the great central metropolis of the United States, is full of interest and instruction. To one standing to-day upon one of the adjacent hills, and gazing down over the immense hive of industry resting upon the river bank, it is difficult to imagine that, less than one hundred years ago, where these solid blocks of masonry, extending as far as the eye can reach, now stand, was an unbroken wilderness, known only to a very few daring white men who had ventured to explore its recesses. Yet it is true that the first settlers landed in Cincinnati, December 28, 1788.

When the pioneers came over the mountains, they left behind them an impassable barrier to every kind of traffic. No water-courses pierced the mountain chain extending from the St. Lawrence to the Gulf. There were no railroads. The early settlers were compelled to appeal directly to Mother Earth for supplies for all of their needs. But they soon discovered that she had anticipated their coming, and had stored up for them here, such a variety and profusion of her richest products, that they found at once within their reach the means of satisfying every want and of gratifying every desire.

The community of interests existing among the frontiersmen demanded that they should have some central point of rendezvous, for purposes of barter and exchange, common defense and intercommunication. The confluence of the Ohio, Little Miami, and Licking Rivers was the natural center of the region, and the Eden-like fertility of the soil left nothing more to be desired for the establishment of a colony. Thus it happened that at this point was erected the primeval fort and store-house.

Planted in the midst of such favorable surroundings, the little settlement was destined to grow, even without intelligent and forecasting care. But the pioneers of Cincinnati read in the favorable features of the location the promise of future greatness. The idea of founding a city entered the minds of the very earliest inhabitants, and to their keenness of vision, and the energy, ability, and wise provisions of themselves and their immediate successors, Cincinnati is indebted in large measure for her present prosperity and influence.

A glance at the natural advantages of Cincinnati shows upon what a solid foundation her prosperity is based, and by what means she has so rapidly advanced to the foremost place among the sources of supply for the wants of mankind, and by what right she carries the banner as the great industrial and commercial center of the country. Situated in the midst of the Ohio Valley, she commands the wealth of one

of the richest and most extensive agricultural regions occupied by man. The most varied and valuable mineral stores, in inexhaustible quantities, are within convenient reach. She has ready access to the best sources of timber-supply on the continent. Lying midway between the extremes of the North and the South, the climate is unparalleled for healthfulness, and secures the largest variety of vegetable productions. The Ohio and Mississippi Rivers and their tributary streams have given the city, from the start, immediate access to the varied and abundant resources of an empire of the richest territory and have carried her wares to a most extended market.

It may be noted, also, that Cincinnati was the first mercantile and manufacturing center established west of the Allegheny Mountains, and, on this account, she became the original source of supplies for the "Boundless West," a position which she continues to fill. Moreover, her location, just on the Northern line of the "Great South," where the existence of slavery naturally produced comparative apathy in mercantile and manufacturing pursuits, made her the source of supply for all that vast region of wealth and luxury also.

Founded thus in the midst of such abundant and varied raw materials, and with the wants of a most vigorous and ever-growing community to supply, it is but natural that the city has developed the great multitude of diverse industries which have secured for her a prominence and preference in so many lines of mechanical productions, and which, in addition to giving her national importance at home, have made her famous in every civilized land.

There is a feature in commercial matters in Cincinnati which is found, in so marked a degree, in no other city, perhaps, and which is of the highest interest to merchants and consumers seeking a supply of wares. Her manifold and diversified business enterprises have been originated and are conducted upon a purely legitimate and natural basis. Abundant and varied resources have made them possible, and actual and pressing wants have called them into existence. The law of supply and demand, the great balance-wheel of trade, has had untrammelled play, and the fortunate result is seen in the permanent character of her financial ventures, the steady and substantial growth of her interests, the high rank and undisputed integrity of her productions, the evenness and equilibrium of her markets, the fairness of her prices, the solidity of her credit, and her self-sufficiency and independence. Such conditions, manifestly, can not exist where market is based upon artificial or imaginary basis, and commodities and prices are arbitrarily manipulated to serve the speculative purposes of unscrupulous stock-jobbers and gambling operators. These normal conditions of trade have secured permanent prosperity, and established a large reserve fund of capital which is quick to come forward for the development of promising new enterprises or for the permissible expanding of those already existing.

Again, while Cincinnati possesses a conservative caution that avoids wild and speculative ventures, she has a quick foresight and a courageous enterprise, which enable her to originate and accomplish undertakings that, in many communities, would remain unthought of. Thus when she began to feel the imperative need of her famous Suspension Bridge, she devised and built it, the first of its kind and the model of all which have succeeded. Later seeing its necessity to her future welfare, she projected and built her magnificent Southern Railway, at an expense of \$18,000,000, the most gigantic enterprise ever undertaken by any such corporate community. The sig-

nificance of this stupendous undertaking and its immense importance to the city, and the vast empire penetrated by the road, are points of the grandest interest, but are too large for discussion here; suffice it to say, that the road as it now is, under the management of the Cincinnati, New Orleans and Texas Pacific Rail Road, known as the "Queen and Crescent Route," is one of the most important arteries in railroad communication in this country of gigantic railroad facilities.

Another of the marked and intrincating evidences of Cincinnati's skillful and successful enterprise is seen in her great Industrial Expositions, presenting annually to their hundreds of thousands of visitors a most magnificent and varied display of the genius and skill, not alone of her own citizens, but largely of the whole country and the world, and constituting at the same time a grand and comprehensive exhibit of the resources of Cincinnati's tributary territory. The constant and increasing success of these Expositions is, in the view of the failure of such attempted displays in other cities, but another evidence of the wide and potential influence of Cincinnati's industrial and commercial forces, and a fair indication of her standing in the great field of productive human endeavor.

It is pleasing to note that the Eleventh Annual Industrial Exposition, of 1883, was one of the most brilliant and successful exhibitions of the series; a marvel in the extent and variety of new exhibits. To enumerate all of its great attractions is impossible here, but we give in the illustrated portion of the work, the business cards, and the specialties of many of the representative parties to whom medals were awarded by virtue of the superiority of their exhibits over other competitors. The most extensive competitive electric light display that has ever been given, was one of the interesting features, while displays in other lines of Mechanic Arts and Sciences corresponded. A comprehensive report of the Electric Light test, will be published in the official report of the Board of Exposition Commissioners that will be of value to parties interested in electric science.

The acquisition of material wealth brings the opportunity for the cultivation and gratification of intellectual tastes and desires. A hint being taken from the popularity of the Industrial Expositions, the magnificent series of May Musical Festivals, Opera Festivals and Dramatic Festivals, was inaugurated. These have met with such marked and emphatic success as to arouse at once the wonder and chagrin of cities making far more pretense to culture than Cincinnati has done. The history of this community emphasizes the fact, that while Science is the faithful handmaid of Industry, Art is her cherished protege.

The center of population of the United States is at present time, almost within the corporate limits of Cincinnati. Her central location, her unrivaled railroad and water connection, her ample accomodations for large bodies of visitors, her many commercial, social, educational, and pleasurable attractions and advantages, have made her the great rallying-ground for commercial, political, fraternal and religious conventions and assemblies, and for visitors from all parts of the country. Accustomed to the constant entertainment of strangers, she has developed an open-handed, hearty hospitality, which, recognizing neither sect nor section, extends an equal welcome to every guest, and so happily entertains him and speeds his parting that he goes determined to come again and bring his neighbors with him.

To enumerate the advantages of Cincinnati as a source of supply to merchants and consumers, especially of the West and South, is superfluous. They are abundantly

manifest and self-evident. Cincinnati has not, and in the nature of things, never can have, a rival in her field. Natural conditions and the irrevocable laws governing investments are all in her favor. No other city in her territory can ever have the favorable surroundings Cincinnati has, and, even could this be possible, other localities are so handicapped by her immense standing investment of capital in manufacturing enterprises that they have no opportunity at all in a race with her. Capital is always timid and conservative and fears new fields and competitive ventures. There is no human power which could induce an aggregation and investment of capital at any other point in Cincinnati's constituent territory sufficient to make it her rival. All that is done, or that ever will be done, in this direction is to build up sufficient competition at other points to keep Cincinnati on her mettle, to insure the constant good quality and improvement of her goods, and to keep her prices within the bounds of necessary risks and reasonable profit.

No better evidence can be adduced to verify the magnitude and promise of the industries and trade of Cincinnati than statistical reports of her commercial progress. Although the dealers effectually supplement the work of the manufacturers, there is nevertheless ample room and need for further subdivisions of those we have, into specialties of sufficient importance to employ the heaviest capital and the ablest business talent and enterprise.

The total manufactured product of the city according to the last annual report of the Board of Trade for the commercial year ending January 1, 1883, and the fiscal year ending March 1, 1883, was \$194,572,536. The value of the real estate occupied was \$43,767,681. The number of establishments 5,518. Cash capital invested \$77,624,359, and the number of hands employed 90,523. This immense amount of capital is divided between about 250 different lines of production. Adding to the above figures the value of the products of Newport and Covington, which in a commercial sense are a part of Cincinnati, it brings the grand total of manufactured products to over \$200,000,000, in a combined population of nearly 400,000, aggregating \$500,000 in product to every *one thousand* of population, or \$500 per capita, a showing that speaks volumes for the industry, enterprise and triumphal progress of the "Queen City of the West."

We have stated above that this labor is confined to 86,000 hands in a population of 400,000, including the suburban districts that properly attach to Cincinnati's commercial limits, giving a pro rata rate of production at \$500 per capita. As one hand is supposed to represent the average of a family of five, this would give the amount of production by each of the 86,000 hands at an average of \$2,500 per annum, showing at the present prices of labor, a munificent return for the capital invested in variegated industries of the city. By an examination of the statistics of other cities, it will be seen that this showing places Cincinnati on a par with any, and superior to most of the prominent cities of the country, in a manufacturing and commercial sense, without bringing into question her pre-eminence in matters of music, the sciences, and fine arts.

The following tables show the various channels of industry, into which this enormous capital and labor is distributed.

T A B L E.

Showing Class of Manufacturers, Number of Establishments, Amount of Capital Invested, Value of Real Estate Occupied, Number of Hands Employed in Each Branch of Manufacturing Industry, together with the Value of Manufactured Products in Cincinnati and Immediate Vicinity during the Year ending January 1, 1883.

CLASS OF MANUFACTURES.	Number of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Product.
Agricultural Implements	4	\$ 225,000	\$ 141,000	283	\$ 376,900
Alcohol— <i>Included with Distilled Liquors</i> . . . . .	..	..	..	..	..
Ale and Porter— <i>See Liquors</i> . . . . .	..	..	..	..	..
Artificial Limbs and Trusses.	6	27,000	41,000	42	64,725
Awnings and Tents	10	17,880	27,400	90	85,800
Baggage Checks— <i>Included with Stencils and Dies</i> . . . . .	..	..	..	..	..
Baking Powder and Yeast	10	65,000	28,000	67	213,400
Beer— <i>See Liquors</i> . . . . .	..	..	..	..	..
Bellows and Forges	2	28,000	20,000	30	33,000
Bells	3	65,000	34,000	55	185,600
Billiard Tables	4	83,300	43,000	83	318,000
Blacking— <i>Included with Inks</i> . . . . .	..	..	..	..	..
Blacksmithing	163	155,000	218,000	781	630,300
Blinds, Venetian— <i>Included with Window Shades</i> . . . . .	..	..	..	..	..
Bolts and Nuts— <i>See Iron</i> . . . . .	..	..	..	..	..
Bookbinding and Blank Books	36	203,000	275,000	520	390,000
Books and Newspaper Publishing . . .	101	2,700,000	1,950,000	2,940	4,017,670
Boots and Shoes	573	2,137,800	947,000	5,690	6,737,324
Boxes—Cigar	11	90,000	70,000	265	233,000
Packing	9	200,000	137,000	245	368,290
Paper	9	46,000	40,000	160	147,000
Boilers	6	200,000	65,000	150	285,717
Brackets and Hat Racks	8	146,000	120,000	470	446,930

TABLE-CONTINUED.

CLASS OF MANUFACTURES.	Number of Estab- lishments.	Cash Capital In- vested.	Value of Real Es- tate Occupied.	Number of Hands Employed.	Value of Product.
Brass Foundry and Finishing	24	\$ 381,000	\$ 240,000	487	\$ 709,830
Bread, Crackers, and other Bakery Products	291	550,000	480,000	1,460	2,811,150
Brick	38	240,000	200,000	450	440,000
Bricklaying	38	100,000		330	1,190,000
Bristles— <i>See Curled Hair</i>					
Britannia Ware	1	45,000	18,000	40	120,000
Brooms	7	12,000	11,000	55	63,000
Brushes and Wire Goods	17	165,000	96,000	313	249,180
Building Material — <i>Exclusive of Brick and Stone</i>	27	1,416,000	768,000	1,527	3,563,087
Bungs and Faucets	4	208,000	79,000	54	80,309
Burial Cases and Coffins	9	913,323	324,781	917	1,723,168
Candles, Soaps and Oils	34	2,537,000	1,214,400	1,448	9,948,018
Candy and other Confections	20	243,850	213,000	345	830,814
Canned Goods	7	288,000	117,000	870	718,600
Caps— <i>See Hats</i>					
Carpentering	227	392,000	313,000	1,588	2,418,720
Carpets	29	6,300	17,000	73	68,924
Carriages and Buggies	64	2,010,000	1,365,000	4,465	8,110,000
Carriages and Wagon Materials	9	438,000	210,000	540	758,312
Cement Felting	2	4,000		24	11,900
Cement, Lime and Plaster	5	30,000	14,000	75	56,700
Chairs and Sofas	22	270,000	117,000	670	664,000
Charcoal—Fuel	11	7,000		55	29,000
Charcoal—Ground	2	8,500	6,500	15	24,000
Chewing Gum*	1	500	3,000	3	4,500
Chemicals— <i>See Drugs</i>					
Children's Carriages, Hobby Horses, Toys, etc.	3	50,000	25,000	125	127,000
Cider— <i>Included with Vinegar</i>					
Cigars— <i>See Tobacco</i>					
Cloaks, Mantillas, Dress Trimmings, etc.	20	255,000	200,000	2,300	1,430,000
Clothing	390	5,940,000	2,325,000	13,250	17,339,487
Coffins— <i>See Burial Cases</i>					

TABLE.—CONTINUED.

CLASS OF MANUFACTURES.	Number of Estab- lishments.	Cash Capital In- vested.	Value of Real Es- tate Occupied.	Number of Hands Employed.	Value of Product.
Coke	5	\$ 25,000	80,000	40	\$ 117,000
Coloring, Dyeing and Laundry Work	72	104,300	149,000	340	207,800
Cooperage	67	513,000	374,000	1,300	1,394,325
Copper Ware	7	33,000	35,000	85	181,337
Cordage	5	115,000	41,000	175	362,000
Corsets— <i>See Hoop Skirts</i> . . . . .	..	..	..	..	..
Cotton Goods	5	395,000	350,000	450	774,116
Curled Hair, Bristles, etc.	6	145,000	58,000	180	264,213
Cutlery and Edge Tools	13	45,000	35,000	60	145,000
Dental Work*	68	49,000	49,000	113	156,800
Drain Pipe*	4	15,000	20,000	35	35,000
Drugs and Chemicals— <i>Including</i> <i>Glycerine</i>	9	618,000	282,000	166	1,081,840
Earthenware and Queensware	11	197,000	150,000	385	372,100
Edge Tools— <i>See Cutlery</i> . . . . .	..	..	..	..	..
Enameled Iron Ware and Show Cards	3	40,000	30,000	85	113,000
Engraving—Glass	2	3,500	4,500	5	8,000
Metal	13	17,500	24,000	57	65,400
Wood	9	10,000	23,000	58	53,675
Excelsior— <i>See Boxes</i> . . . . .	..	..	..	..	..
Fertilizers	3	485,000	235,000	110	247,000
Files	4	11,000	20,000	27	33,000
Firearms and Hunters' Goods	6	9,000	10,000	24	23,000
Fire-alarm Telegraph and Electrical Apparatus	6	60,000	45,000	90	237,700
Fire Brick, Flue Linings, Tile and Clay†	3	37,800	55,000	53	51,000
Firewood and Kindling	3	4,000	3,800	25	18,000
Fireworks and Explosives	1	10,000	12,000	25	35,000
Flavoring Extracts	4	13,000	13,500	25	23,600
Flags and Banners	2	65,000	37,000	90	139,000
Flour and Meal**	12	270,000	275,000	120	1,738,385
Flour Sacks— <i>See Paper Bags</i> . . . . .	..	..	..	..	..
Flowers and Floral Work*	45	150,000	400,000	220	250,000
Foundry Facings	3	45,000	30,000	25	115,000

TABLE.—CONTINUED.

CLASS OF MANUFACTURES.	Number of Estab- lishments.	Cash Capital In- vested.	Value of Real Es- tate Occupied.	Number of Hands Employed.	Value of Product.
Frames and Mouldings	7	\$ 380,000	\$ 200,000	540	\$ 631,300
Furniture	128	2,770,000	2,238,000	3,409	6,681,433
Furs and Gloves	5	72,000	64,000	80	167,320
Galvanized and Sheet Iron Work	17	241,000	130,000	238	677,000
Gas	2	4,270,000	1,000,000	306	968,275
Gas Machines and Machinery	5	93,000	55,000	148	272,000
Glass—Stained and Ground	5	9,500	7,500	25	25,000
Glassware	1	150,000	100,000	350	300,000
Gloves— <i>See Furs</i> . . . . .	.	.	.	.	.
Glue	3	175,000	75,000	95	225,000
Gold Leaf	2	8,900	7,300	27	41,000
Gold Pens, Pencil Cases, etc	1	60,000	30,000	75	100,000
Grates— <i>See Mantels and Grates</i> . . . . .	.	.	.	.	.
Grease and Tallow	11	120,000	73,000	55	430,080
Hardware	11	770,000	250,000	750	1,213,960
Harness and Sadlery	57	611,000	413,000	713	1,648,300
Hair Goods— <i>See Wigs</i> . . . . .	.	.	.	.	.
Hats and Caps	11	16,280	22,000	108	84,400
Hollow-ware— <i>See Stoves</i> . . . . .	.	.	.	.	.
Hoop Skirts and Corsets	4	8,000	11,000	15	12,000
Horse Collars and Hames	3	25,000	20,000	54	61,000
Hose— <i>See Leather Belting</i> . . . . .	.	.	.	.	.
Hosiery	16	92,000	44,000	364	287,000
Ice*	3	600,000	400,000	700	400,000
Inks and Blacking	8	75,000	40,000	50	180,000
Instruments—Astronomical, Engi- neering, etc.	8	34,000	37,000	42	48,000
Instruments—Musical	6	11,000	13,000	20	14,400
Iron—Bolts and Nuts	5	160,000	120,000	317	477,900
Iron—Castings, (not otherwise speci- fied)	20	950,000	237,000	1,080	1,742,318
Iron—Pig, Forged and Rolled, Ex- clusive of Blacksmithing	10	3,330,000	1,418,000	2,680	5,913,000
Iron—Wrought. Railing, Chains, Jail Work, Barbed Wire, etc.	14	320,000	250,000	355	641,813
Japan— <i>See Varnish</i> . . . . .	.	.	.	.	.

TABLE—CONTINUED.

CLASS OF MANUFACTURES.	Number of Estab- lishments.	Cash Capital In- vested.	Value of Real Es- tate Occupied.	Number of Hands Employed.	Value of Product.
Jewelry and Silverware	45	\$ 509,000	\$ 350,000	940	\$ 1,860,000
Lard†† . . . . .	..	..	..	..	2,689,000
Lasts and Hat Blocks	3	4,800	3,500	16	9,250
Lead, Sheet and Pipe	3	125,000	40,000	31	264,000
Leather	40	1,848,000	1,139,000	910	4,347,950
Leather Belting and Hose	4	67,000	45,000	49	308,000
Lightning Rods	3	40,000	20,000	14	147,000
Lime— <i>See Cement</i> . . . . .	..	..	..	..	..
Liquors—Distilled (a)	11	3,430,000	485,000	340	11,317,548
Malt (b)	28	3,327,000	2,450,000	1,070	5,809,243
Rectified (c)	60	2,784,000	620,000	414	11,368,214
Wine* . . . . .	..	..	..	..	200,000
Lithographing	9	247,000	185,000	308	574,403
Locks and Locksmithing	25	394,000	99,000	163	487,300
Lumber— <i>Included with Building Materials</i> . . . . .	..	..	..	..	..
Machinery— <i>Including Steam Guages</i>	58	1,364,920	1,147,000	1,530	3,958,647
Malt— <i>Exclusive of that Manufactured by Brewers</i>	15	734,000	440,000	127	1,013,708
Malt Kilns	3	17,300	26,000	20	27,200
Mantels and Grates	7	550,000	180,000	400	525,000
Maps†	2	5,000	5,000	20	15,000
Marble Works— <i>See Stone</i> . . . . .	..	..	..	..	..
Mattresses and Bedding	19	63,000	75,000	129	231,216
Millinery	448	550,000	450,000	1,750	1,373,080
Mill Stones and Portable Mills	5	285,000	220,000	250	505,000
Mineral Water	16	65,000	70,000	80	125,000
Mucilage— <i>Included with Inks</i> . . . . .	..	..	..	..	..
Neck Ties, Ruffling, etc.	6	16,000	28,000	180	113,000
Oils— <i>See Candles, etc.</i> . . . . .	..	..	..	..	..
Ornamental Plaster	3	3,000	6,700	20	17,300
Paints— <i>See White Lead</i> . . . . .	..	..	..	..	..
Paper (d)	36	1,350,000	2,317,000	1,663	3,483,957
Paper Bags, Flour Sacks and En- velopes	5	207,988	115,000	170	723,533

TABLE.—CONTINUED.

CLASS OF MANUFACTURES.	Number of Estab- lishments.	Cash Capital In- vested.	Value of Real Es- tate Occupied.	Number of Hands Employed.	Value of Product.
Paper Novelties— <i>Including Collars</i> . . .	5	\$ 7,500	\$ 12,000	40	\$ 27,000
Paper Hangings	32	168,000	210,000	225	592,260
Painting—House, Sign and Fresco . . .	164	150,000	150,000	500	675,000
Patent Medicines	44	675,000	250,000	150	893,313
Patterns and Models	21	28,000	35,000	70	53,000
Photographing	33	45,618	90,000	107	190,000
Plastering	27	20,000		225	195,000
Pocket Books— <i>See Paper Novelties</i> . . .					
Printing—Job	87	325,000	360,000	750	745,000
Provisions	173	3,875,000	2,700,000	1,900	13,269,597
Pumps and Plumbing	75	330,000	275,000	450	827,480
Putty— <i>Included with White Lead, etc.</i> . .					
Railway Material and Supplies	8	470,000	360,000	425	1,113,693
Ranges and Warm Air Furnaces	7	175,000	120,000	145	297,430
Refrigerators, Ice Boxes, etc	4	45,000	25,000	50	52,000
Regalia and Costumes	6	55,000	21,000	125	98,000
Roofing Material	12	125,000	75,000	180	244,520
Rubber Mouldings and Stamps	6	7,000	5,000	11	9,216
Saddle-trees	3	33,000	40,000	55	75,000
Saddlery— <i>See Harness</i>					
Safes and Bank Locks	6	1,060,000	390,000	1,350	2,313,000
Saws	5	196,000	90,000	215	238,578
Scales and Trucks	3	35,000	27,000	26	51,000
Seal Presses and Canceling Stamps . .	5	13,000	17,000	27	26,400
Sealing Wax*	1	2,000		10	6,000
Sewing Machine Outfits— <i>See Ma- chinery</i>					
Shipping Tags— <i>See Job Printing</i> . . .					
Show Cases	6	50,000	55,000	140	212,000
Shoes— <i>See Boots and Shoes</i>					
Silk—Manufacturers of	6	31,000	24,000	175	122,000
Silver Plating	12	65,000	66,000	145	163,000
Silverware— <i>See Jewelry</i>					

TABLE.—CONTINUED.

CLASS OF MANUFACTURES.	Number of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Product.
Soaps— <i>See Candles and Soaps</i> . . . . .	..	..	..	..	..
Spices, Mustards, etc.	10	\$ 135,000	\$ 75,000	111	\$ 473,317
Stair Building	6	17,000	25,000	65	76,000
Starch	2	300,000	350,000	240	850,000
Steamboats and Barges	3	210,000	150,000	230	468,000
Steam Guages— <i>See Machinery</i>. . . . .	..	..	..	..	..
Steam Heating Apparatus	11	78,000	50,000	90	124,000
Steel Springs	4	45,000	20,000	95	176,000
Stencils and Dies	5	25,000	25,000	65	63,000
Stone and Marble Works.	50	750,000	525,000	1,000	1,248,000
Stoves and Hollow Ware	10	1,073,000	600,000	1,280	1,913,725
Tallow— <i>See Grease and Tallow</i> . . . . .	..	..	..	..	..
Tinware and Tinnerns' Supplies, etc.	103	260,000	275,000	630	919,400
Tobacco—Cigars and Cigarettes (e)	388	1,272,700	555,000	3,260	3,362,917
" Plug, Fine Cut, Snuff and Smoking (f)	27	560,000	358,000	575	1,161,430
Trunks and Valises	11	113,000	147,000	220	260,000
Trusses and Braces— <i>See Artificial Limbs</i> . . . . .	..	..	..	..	..
Type, Presses and Printing Material.	5	250,000	175,000	350	531,416
Umbrellas and Parasols.	7	20,000	12,000	25	50,000
Valises— <i>See Trunks</i> . . . . .	..	..	..	..	..
Varnishes and Japans*.	5	95,000	80,000	30	250,000
Veneers and Thin Lumber	2	350,000	85,000	120	475,000
Vermicelli, Macaroni and Chocolate†	3	6,300	7,000	12	15,000
Vinegar and Cider	9	125,000	75,000	53	236,750
Wagons. Carts, etc.	69	350,000	270,000	650	890,800
Washing Machines— <i>See Wooden Ware</i> . . . . .	..	..	..	..	..
Whisky— <i>See Liquors</i> . . . . .	..	..	..	..	..
White Lead, Colors, Paints and Putty	13	1,380,000	450,000	270	1,538,600
Wigs and Hair Goods	25	30,000	42,000	103	55,000
Willow Ware	9	15,000	13,800	24	35,000
Window Shades, Venetian Blinds etc.	5	15,000	15,000	32	27,500
Wines— <i>See Liquors</i> . . . . .	..	..	..	..	..

TABLE.—CONTINUED.

CLASS OF MANUFACTURES.	Number of Establishments.	Cash Capital Invested.	Value of Real Estate Occupied.	Number of Hands Employed.	Value of Product.
Wire Goods— <i>See Brushes</i> . . . . .	..	..	..	..	..
Woolen Goods	3	\$ 175,000	\$ 90,000	220	\$ 350,000
Wooden Ware	14	93,000	120,000	247	293,000
Wood Turning	11	42,000	42,000	57	63,000
Wringing Machines*	1	80,000	30,000	55	130,000
Miscellaneous Industries, to-wit: Auger Works, 1; Artesian Wells, 1; Block and Tackle Manufac- tories, 1; Box Straps, 1; Calico Printer, 1; Calcium Light, 2; Cheese, 2; Cloth Shrinkers, 2; Dentaphone, 1; Elevators, 3; Electric Light, 1; Galvanic Ap- pliances, 1; Grinders, 3; Heat Reflectors, 1; Iridium Mfrs., 1; Looking Glass, 1; Oleomarga- rine, 1; Paper Stock, 1; Slate Pencils and Soapstone Goods, 1; Sausage Casings, 2; Screw Taps and Dies, 1; Skiff Builders, 2; Salt Packers, 3; Suspender Fac- tories, 1; Cigar Moulds, 2; Tax- idermists, 2; Smelting Works, 1; Comb Works, 1	41	550,000	200,000	500	1,250,000
Miscellaneous Industries of Hamil- ton County, Outside of the City Limits, not included in above*	50	1,500,000	400,000	1,500	3,000,000
Total	5518	\$77,624,359	\$43,767,681	90,523	\$ 194,572,536
Estimated Value of Production of Covington and Newport					17,750,000
Grand Total					212,322,536

* Estimated.

† Last year's reports.

†† 22,885,114 pounds. Hands included with Provisions.

a 10,010,528 gallons.

b 21 Breweries; 7 Bottling establishments. Malt liquor manufactured, 23,700,430 gal-
lons.

c 10,545,978 gallons.

d Book Paper, 9,559,645 pounds; Manilla, 9,577,009 pounds; News, 14,511,451 pounds;
Roofing, 6,227,199 pounds; Wrapping, 21,178,385 pounds; Writing, 2,100,000 pounds.

(e) Cigars, 117,077,075; Cigarettes, 722,560.

(f) Number of establishments manufacturing Plug Tobacco, 5; Fine Cut, 5; Smok-
ing, 13; Snuff, 4. Amount produced: Plug, 556,705¼ pounds; Fine Cut and
Smoking, 1,486,899½ pounds; Snuff, 20,760¾ pounds.

Probably the most important agencies in outstripping competition and securing the highest degree of prosperity, are to be found in the manufactories themselves, and the manner in which the business is conducted. Taken as a whole, the industrial system of no city in the world is more intelligently organized and directed, or more thoroughly equipped. The manufacturing facilities are, as a rule, as complete and perfect as they can be made, the custom being to employ every labor-saving device that can be advantageously used to facilitate production, economize cost, and at the same time secure the best mechanical results. Skilled labor finds no lack of remunerative employment in our workshops, and the result is that our manufacturers have the best machinery and the most intelligent artisans that can be procured, and turn out a grade of work that has made Cincinnati famous far and wide, and given her productions command of almost every market in which they have been placed. Add to this the liberal employment of improved methods and styles; the constant effort to more perfectly adapt every article to its purpose, to add both to its appearance and usefulness; the careful paring down of expense in everything except materials and workmanship; the strict system of inspection and testing, that secures reliably uniform excellence; the conscientious regard for the interests of customers—and we have the true elements of a satisfactory and successful business system.

The same features appear in the manipulation of domestic and foreign products by the dealers, the universal rule being to handle only the best. The banking facilities are extensive, and are liberally employed in the interest of commercial and manufacturing enterprise, and the great steamboat and railroad lines, with their connections ramifying the country, and furnishing swift and convenient communication with every desirable point, distribute the goods made or handled here over an extent of territory co-extensive with the boundaries of the nation, and stretching beyond it into neighboring states, while the white wings of the ocean carriers bear across to the old world many evidences of the enterprise, genius, and skill that have raised Cincinnati to her present enviable eminence.

The aggregates of valuations of Cincinnati trade for 1882 by those most careful and expert statisticians, Col. Sidney D. Maxwell, Superintendent of the Chamber of Commerce, and J. F. Blackburn, Esq., Secretary of the Board of Trade and Transportation, show that the merchants and manufacturers distributed among their customers during that year \$294,719,798 worth of goods, besides supplying their home trade, and received in exchange or for trans-shipment the value of \$295,605,258.

The corresponding figures for 1881 show the exports to have been \$271,973,776, an increase of \$22,746,022 for the year, and of imports \$274,651,218, an increase of \$20,954,040. The returns for the year 1883 embodied in the Chamber of Commerce and Board of Trade reports, are in course of publication and will show a corresponding increased commercial activity for the past year.

This could not have been satisfactorily accomplished with less than the magnificent transportation systems centering here, embracing fifteen or sixteen railroads with over 5,500 miles of track, and connections reaching thousands of miles further, and the great river system of the West and Southwest, with many thousands of miles of navigable water, which has always been a powerful factor in the city's progress.

Still other potentialities in the business interests are the Chamber of Commerce, the Board of Trade and Transportation, the Pork Packers' Association, the Tobacco Association, the Builders' Exchange, the Furniture Exchange, the Coal Exchange, and other exchanges formed in behalf of specially important lines of trade or production. These organizations, particularly the first two named, have been of invaluable service to the community, and particularly to the interests they were designed to promote. They unite the efforts, and thereby enhance the influence of business men in matters important and even vital to their welfare; harmonize clashing interests, energize all business activities, and generally exercise functions that, although of prime necessity, could not otherwise be fulfilled.

Having given as closely as possible the amount of the business interests carried on in the metropolis, what could be more fitting in closing this article than some remarks on Cincinnati's schools, where the ability and energy that is to control these immense interests in the future is being moulded into shape and fitness for the responsibility, and also the desirability of Cincinnati as a place of residence. The following from the pen of Mr. A. N. Marquis, author of "Industries of Cincinnati," is to the point:

"The influence of education upon business communities, upon legislation affecting business interests, upon improvements in materials and methods—indeed, measurably affecting directly or indirectly, every calling and every channel of trade—is sufficient to justify a brief recital here of the facilities of Cincinnati in that important department. To show how liberally she provides for the education of the young, in order that intelligence may be added to skill in the pursuits they are designed to follow, is to explain, in great part, her triumphs in every field of competitive effort, for her strength lies largely in the fact that her artisans and business men are exceptionally intelligent as a class, and this feature of the business life is maintained and enhanced by the distribution of the advantages of education among all classes of her population.

"The school system of Cincinnati, which had its origin in an act of the legislature, passed in February, 1829, giving an independent organization to the public schools of the city was of slow growth at the start, having to struggle against prejudice and scant means among other obstacles. But the need grew with the city's growth, and finally forced itself into such prominence that it commanded the most liberal treatment, and the steady improvement was inaugurated which has culminated in the present magnificent system, perhaps unequalled in its intelligent arrangement and management, or in the symmetrical completeness of its practical course of study, by the schools of any other city in the Union. Certainly in no other city are there better opportunities for every child to obtain, without charge, the equivalent of an academical course, but better arranged with a view to practical usefulness, and more thoroughly taught than the curriculum of most academies. The following from one of the annual reports of the efficient superintendent, John B. Peaslee, is fully justified by the facts:

"Cincinnati enjoys the most complete system of public school education of any city in the world; for the pupils of both sexes have not only open to them the advantages of the District, Intermediate and High Schools, but possess the privileges of attending, free of charge, the University of Cincinnati. The course of instruction given in this long extended curriculum is of very high character. From school to

school the student passes, until he goes out into the world from the University with that broad teaching which will enable him to hold his own proudly in the stirring times in which we live. There are but three educational institutions in this country—Harvard, John Hopkins and Michigan Universities—whose matriculation examinations are equal to ours, and whose standard for admission to degrees is correspondingly high.' "

Ample provisions are made for white and colored pupils in separate district, intermediate, and high schools, and special arrangements are provided for the education of white and colored deaf mutes. There are also separate night schools for white and colored pupils who cannot attend during the day. The schools occupy 56 buildings, of which 55 are the property of the city, the entire school property being valued at \$2,040,000. The number of school-rooms in use is 636, giving 16 square feet of floor and 227 cubic feet of space to each pupil. The tax levied for the support of the schools the current year is at the rate of $3\frac{3}{4}$ mills on the dollar, producing a revenue of \$605,625. There 128 male teachers and 531 female teachers employed. The best available educational talent is employed, and a normal school is provided for the training of graduates of the high schools in the profession of teaching. The school property, real and personal, and the entire management and control of the schools and school funds—fixing the tax levy, providing school accommodations, electing teachers and superintendent, deciding upon text books, and making all necessary rules and regulations—are vested in a board of education, consisting of one member from each of the 25 wards, and 12 members at large, who are elected by the qualified voters. This board also has charge of the Public Library. The minimum school age is 6 years.

The following table exhibits the distribution of pupils and teachers, and other facts of interest in that connection :

SCHOOLS.	Number of Schools.	Number of Pupils Enrolled During the Year.	Average Daily Attend- ance.
District Schools (white)-----	28	26,561	20,315
District Schools (colored)-----	6	1,135	763
Intermediate (Grammar) Schools (white)-----	4	5,053	4,162
Intermediate Schools (colored)-----	2	180	148
High Schools (white)-----	2	1,183	1,021
High Schools (colored)-----	1	72	51
Normal Schools-----	1	43	39
Deaf-Mute Schools (white and colored)-----	1	27	25
Night Schools (white)-----	9	3,435	1,965
Night Schools (colored)-----	3	307	191
*University of Cincinnati-----	1	374	374
Total-----	58	38,370	29,054

*The University being free to all pupils of Cincinnati, it is considered a part of the public school system.

These figures show not only the liberal provision made for instruction, but also the free use made of them by parents. The work in the public schools is so well and thoroughly done that no room is left for private schools, except such as have some special feature not embraced in the public school system. Of these we may mention many kinds, commencing with the kindergartens, of which several are made free by contributions of citizens interested in the plan. Then there are many denominational schools, kept up by church congregations, and professional schools and colleges of all kinds—law, medicine, theology, music, etc.; also, schools of art, mechanics, engineering, business, etc. In fact, in whatever vocation a parent may desire to place his child, there are in Cincinnati abundant and unsurpassed opportunities for the complete qualification of the pupil for his destined pursuit. The College of Music, the School of Design, and the Mechanic's Institute, enjoy a wide and deserved reputation, the latter particularly having earned distinction by long and valuable service in its special sphere.

As a place of residence, eligibility is a passive but potent force in the growth and prosperity of a city, and this force exists in its highest development in Cincinnati and her suburbs, where churches, schools, parks, gas, water, coal, street railroads, all metropolitan conveniences and comforts abound. The climate is of an average character, as between the extreme northern cold and the extreme southern heat, and the city is to a large extent protected from violent changes by the surrounding hills. The death rate from all causes, during the past five years, which include several unusually sickly seasons, averaged, according to official reports, only about one in every fifty-five inhabitants, or about 1 4-5 per cent.

Rents are reasonable and building comparatively cheap. The street-cars not only connect all available residence sections with the manufacturing and mercantile centers, but penetrate into the suburbs, and by means of the inclined railways, mount the hills to the finest and healthiest sites in the world, where all the conveniences enjoyed in the city below follow them. There are four of these useful railways—one each at the east and west ends of the city, and two on the north—All connecting at the top of the hills with extensions that run for miles through inviting locations for homes. Thousands of our best people live on these hill-tops, some of the most elegant mansions being located there. The steam railroads run accommodation trains at low fare, and one can enjoy the pleasures of semi-rural life within less than twenty minutes ride from the depot.

The markets are bountifully supplied with all the abundant indigenous products of the section and the specialties of every latitude contribute to their appetizing display. Almost everything we eat and drink—especially meats, fish, poultry, milk, butter, vegetables, fruits, etc.—passes under official inspection, while a vigilant and active corps of sanitary police is constantly employed. Furniture, stoves, and all house furnishing goods are manufactured here to meet every need, from the neat simplicity of a cottager or dweller in tenements to the occupants of elegant "flats" or princely mansions.

In a social point of view there is nothing to be desired. The plane of cultivation polite society has attained, the substantial acquirements in every line of thought and

research, the brilliant successes that adorn every walk of life, well entitle the city to be styled—as she was by one of her most distinguished citizens—“the Edinburgh of a new Scotland, the Boston of a New England, the Paris of a new France.” The high culture that demanded the magnificent Music Hall, the home of the College of Music, the operatic and dramatic festivals, and the Industrial Exposition, and that established the School of Design, enlarged the sphere of the Mechanic’s Institute, supports the great libraries, the studies and picture galleries, the Art Museum, the Observatory, the Society of Natural History and various other institutions that cater to social needs, is sufficiently indicated in these practical examples of its wants. And these institutions in turn continually widen the air of cultivation among the people, and develop the artistic taste that is seen in the architectural splendors of the palaces of trade that line our thoroughfares—in the beautiful forms produced in our workshops and in the decoration of our homes.

The theaters, the gardens, the hilltop resorts, the shady groves in the vicinity, the clubs, the social gayeties, all afford abundant and varied opportunities for recreation.

In short, living is, as a rule, cheaper, better, healthier, and pleasanter in Cincinnati than in any other large city in the Union, and there are always openings for remunerative occupation for all.

These remarks portray the relative progress of Cincinnati as one of the leading Metropolitan cities of the land, without any exaggeration, but as consistent with fact and detail as so enormous a subject could be gathered in so condensed a space.—This issue being the first of the kind published in the history of Cincinnati Expositions, the publishers ask its subscribers to overlook whatever delay and irregularity of detail that may have occurred. The next issue will appear about January 1, 1885, in much more elaborate shape and interesting features, the result of experience derived in compiling the present work, which we trust may meet the approval of all parties interested.

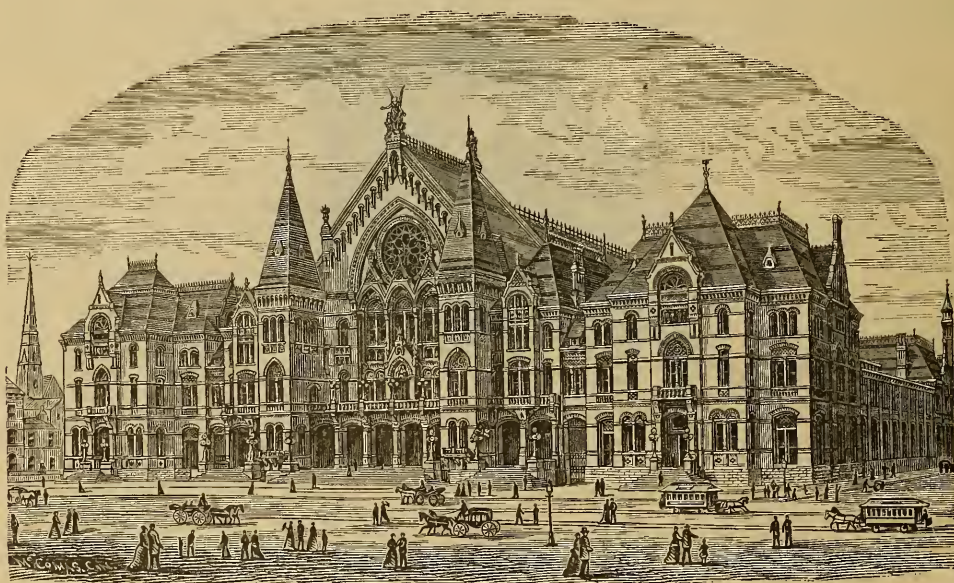




REPRESENTATIVE HOUSES,

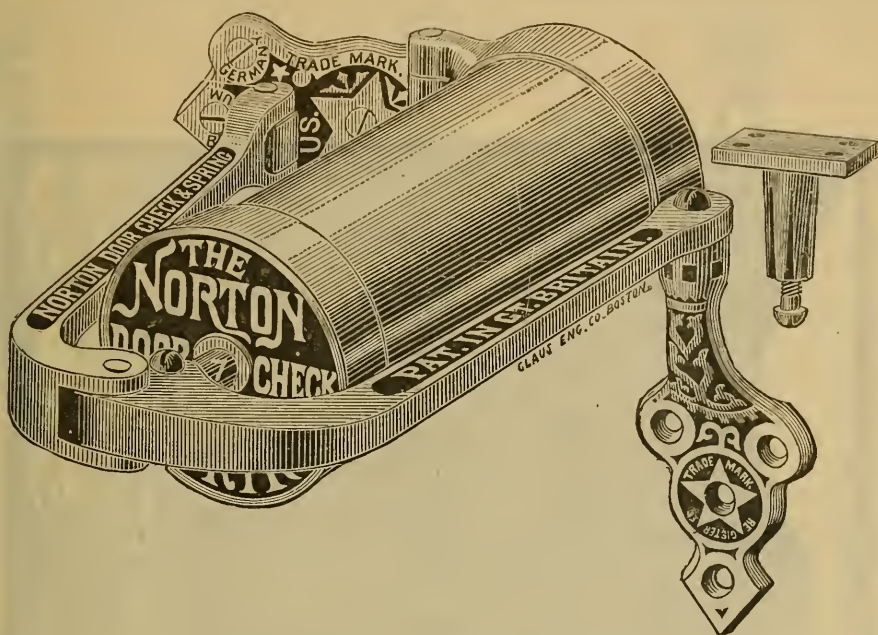


— AT THE —



ELEVENTH

Cincinnati Industrial Exposition.



DESCRIPTION.

This device consists of a Cylinder, Piston, Spring and Self-adjusting Valve. It is provided with suitable Brackets, and is adapted to be attached to the **TOP PART** of a door and the **FRAME OVER** the door. In it are two great powers, namely: The **SPRING**, which is sure to close the door—drawing the hardest when it is nearest closed—and the **CHECK**, or the **CUSHIONING of the PISTON on AIR**, which brings the door to a stop for an instant near the jamb, then quietly but surely closing the door and latching it by the operation of the Spring, being regulated by the Automatic Valve, which permits the Air to enter the Cylinder freely while opening the door, and while closing exhausts the Air more or less, as the force exerted on the door to close it, is greater or less.

The parts of the device are so arranged together that the greater the force exerted to close the door the greater resistance will be offered; consequently no slam or jar can occur. Many devices have been tried for this purpose, and all but the **NORTON DOOR-CHECK AND SPRING**, have been found wanting. It is very desirable for the doors of

Hotels, Churches, Theatres, School-houses, Hospitals.

Public Buildings of all kinds, Stores, Counting

Rooms, Private Dwellings, Railroads,

Steamboats, Etc., Etc.

and, in fact, for all doors, large or small, which are liable to slam. It is of especial value upon Storm Doors, or doors exposed to high wind; for Screen Doors it has no equal, and operates equally well upon outside or inside doors. It is very simple, and not liable to get out of order, and may be attached to either side of a door.

THE NORTON, awarded the first prize By the Massachusetts Charitable Mechanic Association, Boston, 1881, American Institute, New York, 1882 and 1883. Cincinnati Exposition, Ohio, 1882 and 1883. Exposition Railway Appliances, Chicago, June, 1883. Louisville Exposition, 1883. Chicago Exposition, 1883.

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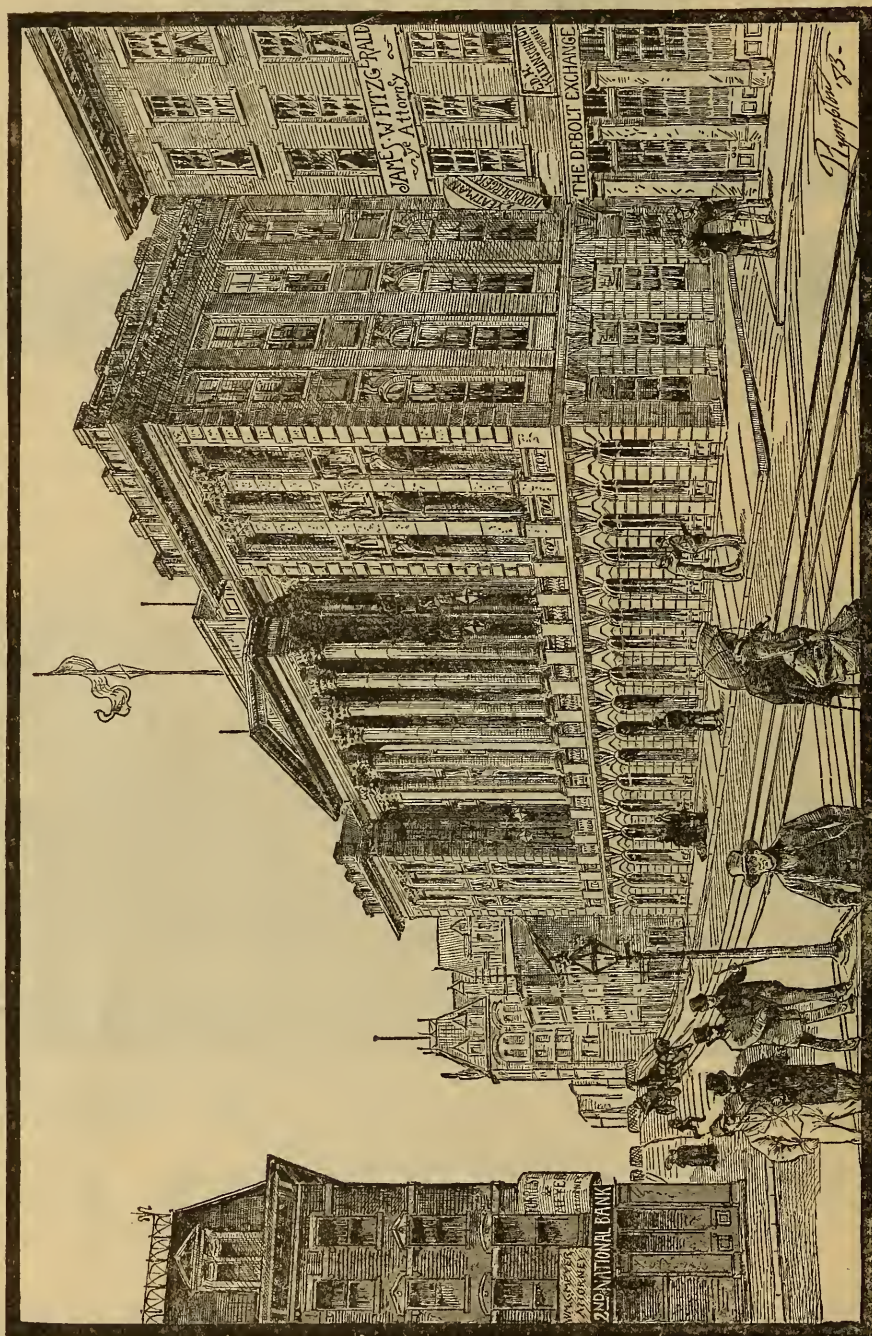
General Agents for United States and Foreign Countries.

T. & A. PICKERING,

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WHRDROBE,

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PARLOR

AND

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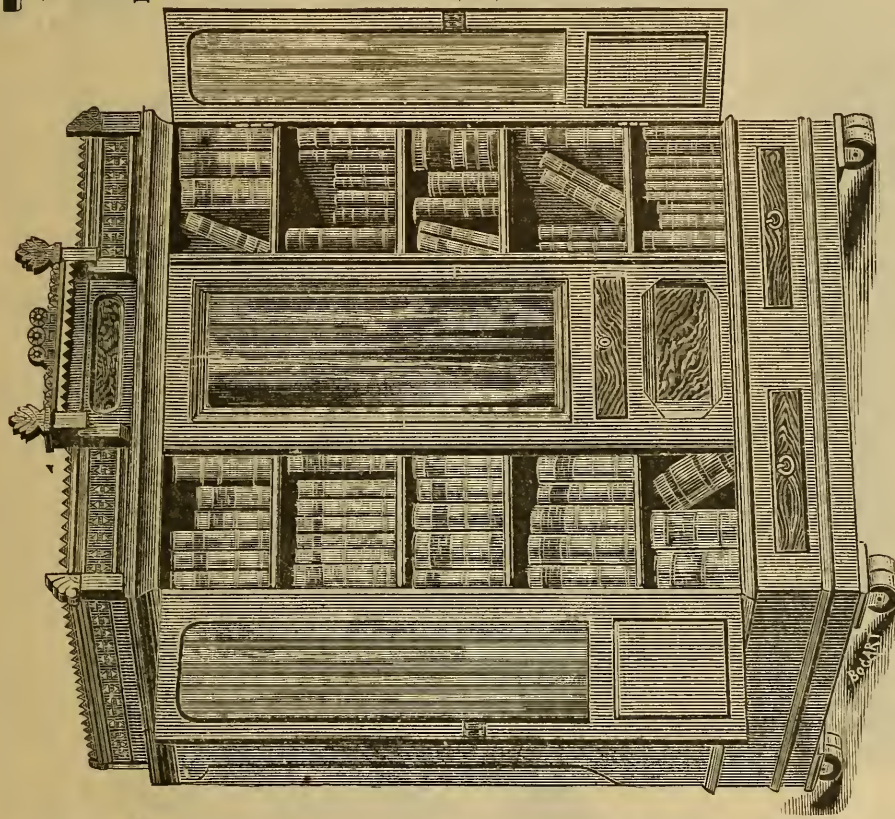
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HALL'S

IMPROVED

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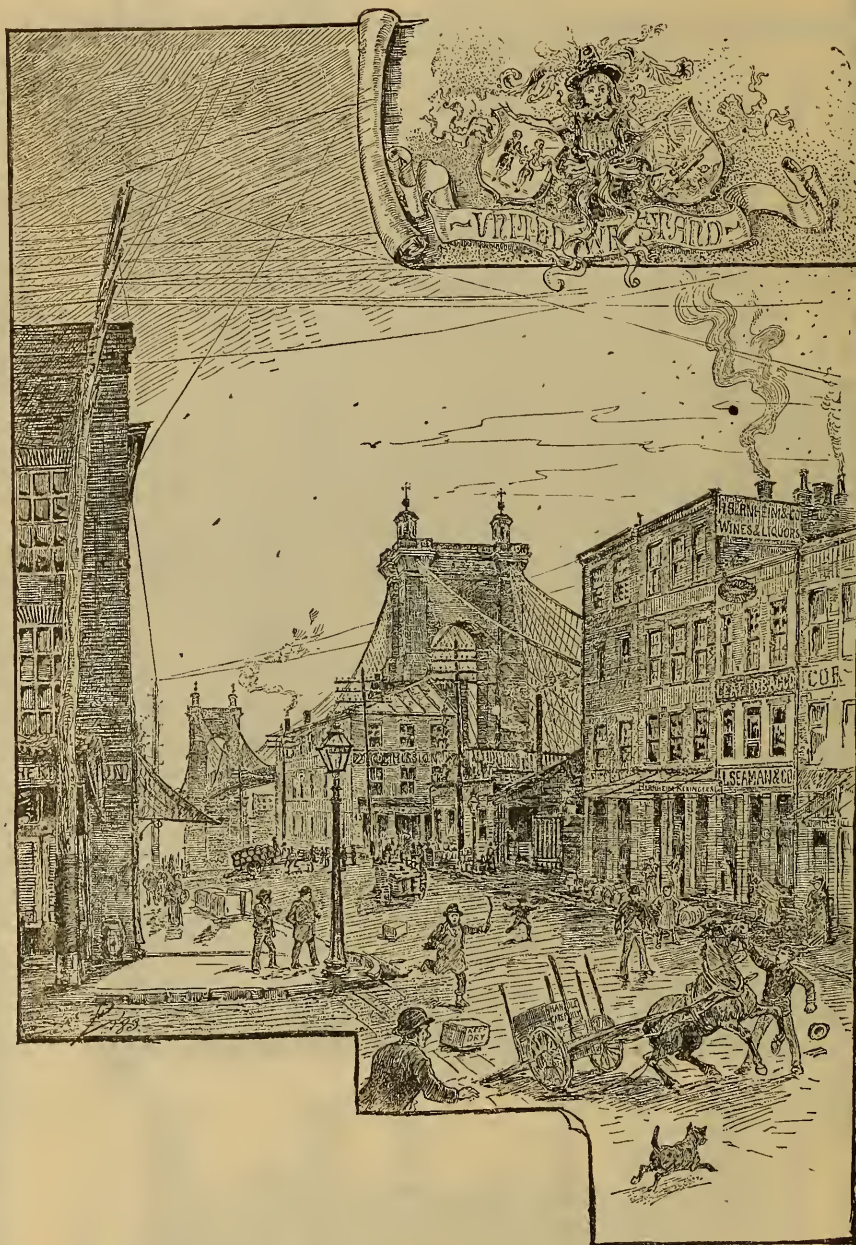
BEDS



A Combination Dressing-Case, Writing-Desk Concealed Wash-Stand.

No. 229 WEST FOURTH STREET, CINCINNATI, OHIO.

SILVER MEDAL awarded at Cincinnati Industrial Expositions of 1879, 1880, 1881, 1882 and 1883 over all others.



Foot of Walnut Street, (Suspension Bridge.)

— ESTABLISHED 1828. —

BRUCE & CO., **FINE CARRIAGES,**

ALL STYLES OF THE BEST CLASS.



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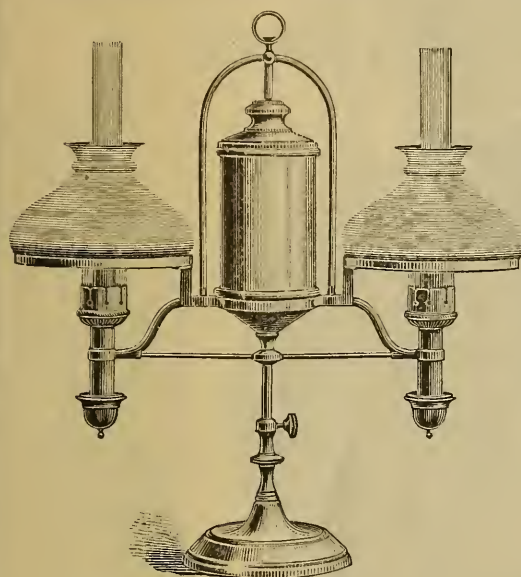


Fourth Street, bet. Walnut & Main, (First Presbyterian Church.)

→† POST & COMPANY, †←

MANUFACTURERS OF

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AMERICAN STUDENT LAMPS,

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STRONG STEADY LIGHT,

Six Times Cheaper than Gas,

SEND FOR ILLUSTRATED LIST.

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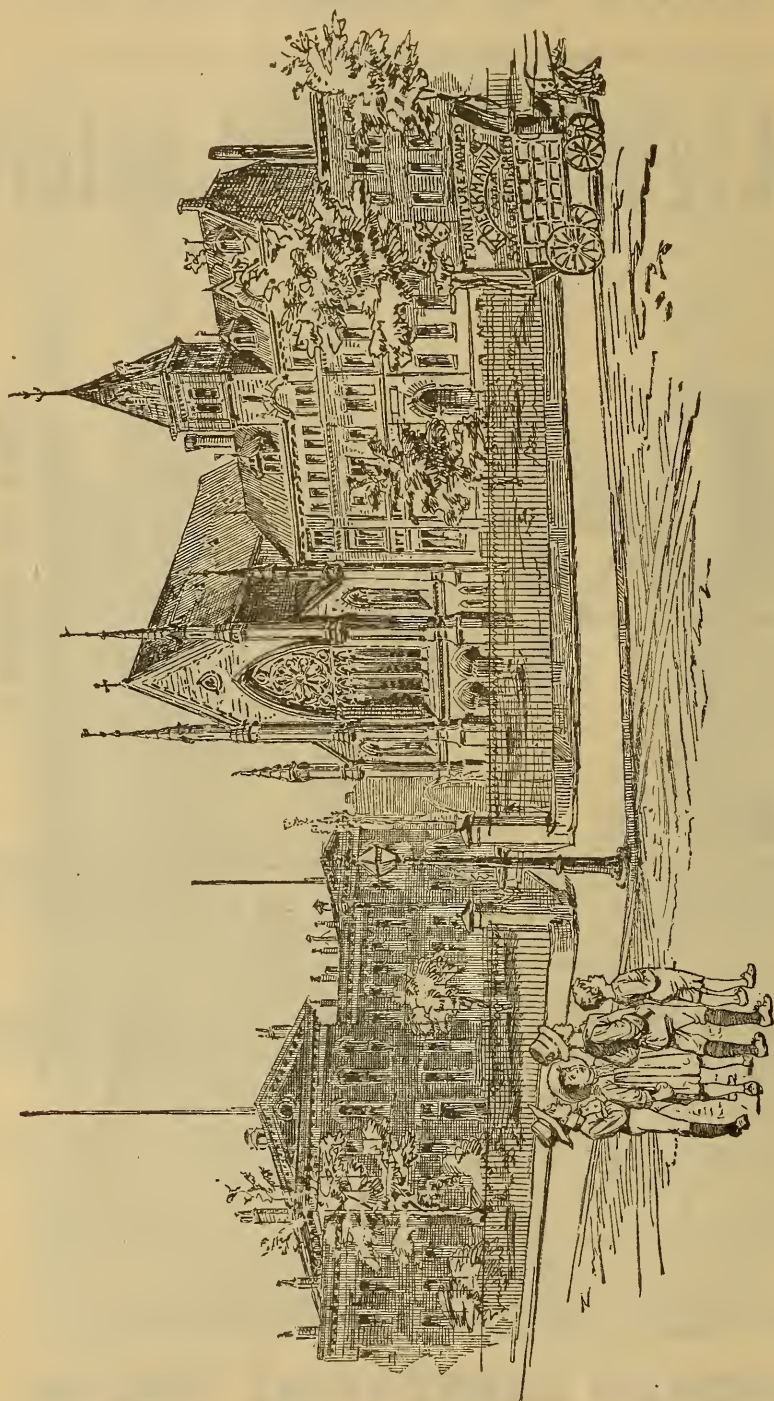
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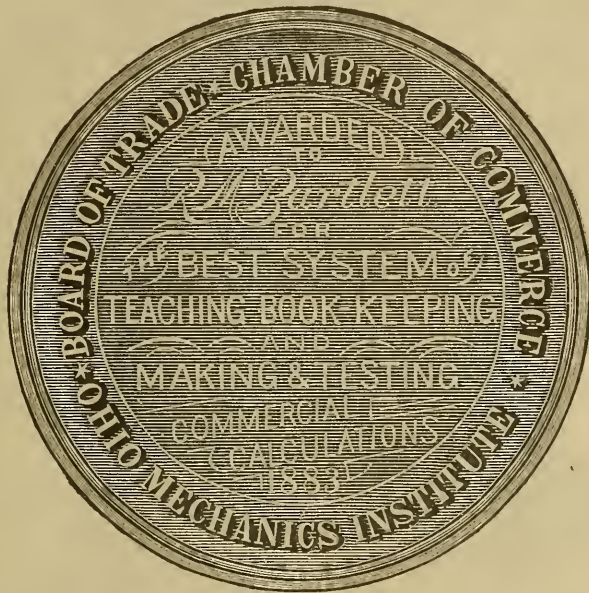




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**The \$500,00 Challenge that**  
**PROF. R. M. BARTLETT'S**  
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**Crystalized System of Book-Keeping,**  
**WHICH TOOK THE**  
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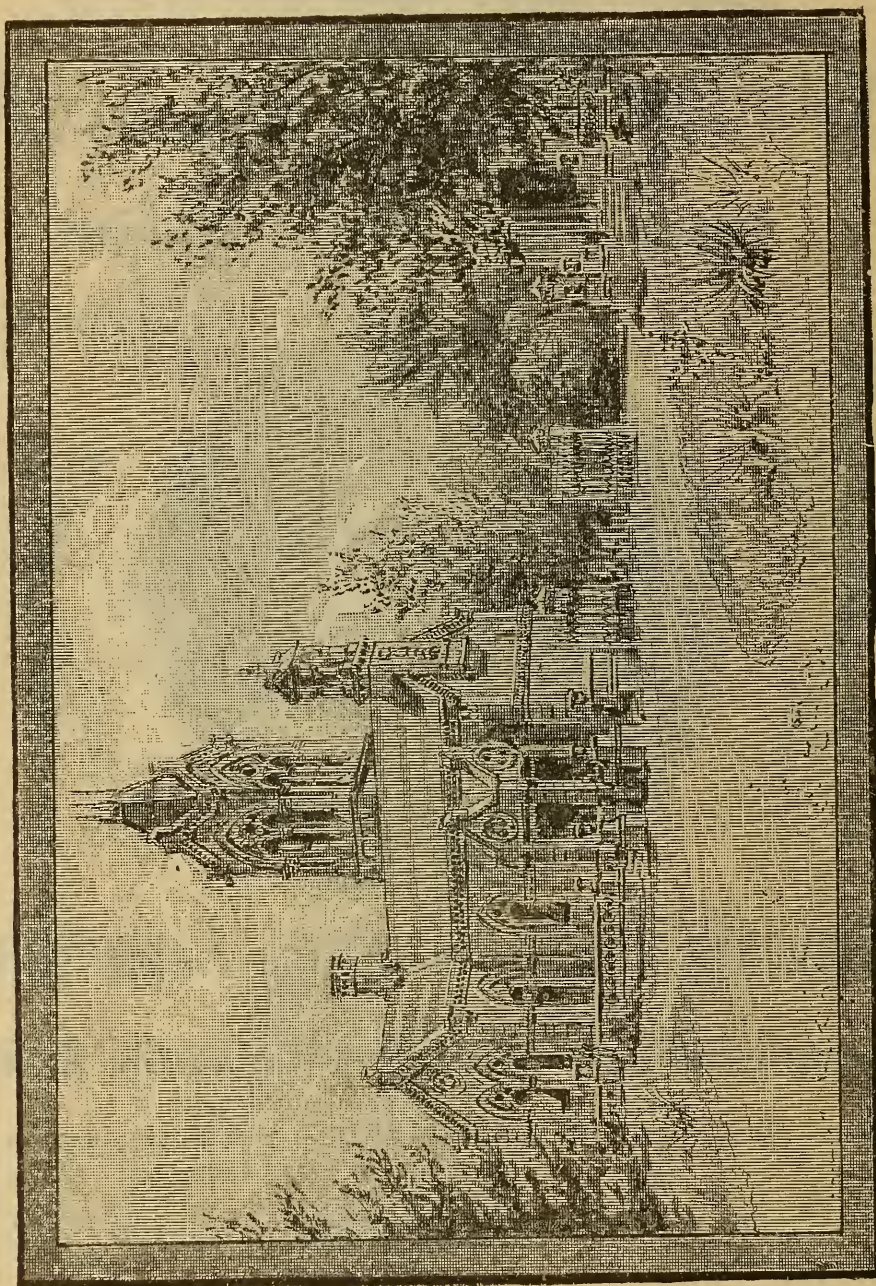
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But the only system that gives Daily Aggregates and Balances on both Notes and Accounts, doing away with the necessity of checking your Books, as an error in posting either in amount, to wrong account, or wrong side of an account or in addition cannot escape detection at once.

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College Office, 256 Walnut Street, Cincinnati, O. R. M. Bartlett, Pres't. C. W. Bartlett, Sec'y.





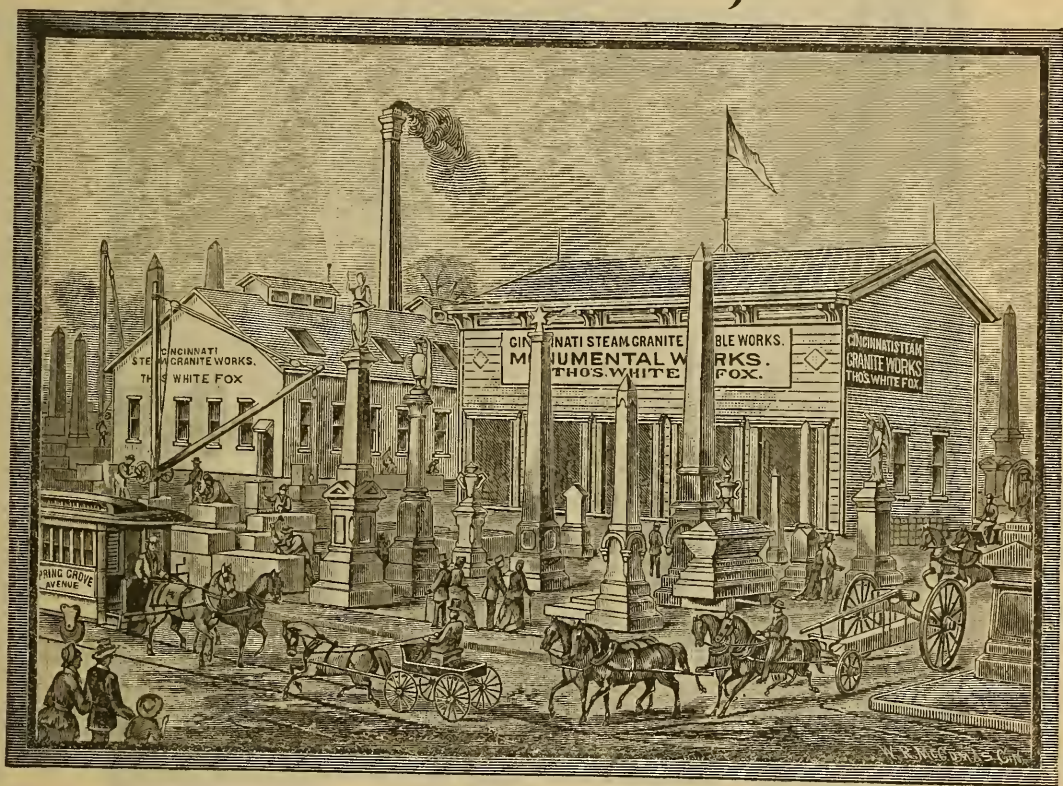
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Highest Award For Superiority of Workmanship and Excellency of design, at  
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THE CINCINNATI STEAM  
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THE ARCADE.

# THE Attwell Burglar-Proof Sash LOCK and VENTILATOR!

A NEW PRINCIPLE INTRODUCED, AND ENLARGED  
AND NOVEL POWERS IN LOCKING SASH,  
THE RESULT!

—OBSERVE WHY IT IS SUPERIOR TO ALL OTHERS.—

- 1st.—The Locks are so located and constructed that it is impossible for the thief to control or force them.
- 2nd.—Their power is not circumscribed alone to locking *when window is closed*; but either sash, or both, may be securely locked *at any desired point of elevation or depression*.
- 3d.—ONE KEY, from the *one point* (and that the most convenient), controls the two Locks, and the *Key is removable at pleasure*; thus the power to *admit the air*, and *Safely Lock against the Thief*, is secured *at one and the same time*.
- 4th.—The Locks are *Automatic* in action—the sash *always locked*—and *no labor of closing* Locks at night necessary, or a *failure to leave them locked possible*.
- 5th.—The bolt of either Lock may be withdrawn, and held “*shut off*” when desired.
- 6th.—In high windows, the application of the “Attwell” extends a “*sheltering care*” over small children, and dispenses with the necessity of bars so frequently used. As the sash remains locked where left, the child is unable to throw them up (on their weights), and, mayhap, topple out. With the window now, as the door, when the *key* is removed, they become as securely locked from within as without.
- 7th.—Where windows are *without weights*, the application of these *Locks* virtually dispenses with their necessity, giving the powers of *three pieces of hardware in one*. Viz: 1st. The power of controlling, and holding at points of *depression* the upper sash. 2nd. The power of holding at any desired point of *elevation* the lower sash, and providing such *detent for the bolts* as to render the *accidental falling* of either sash impossible. 3d. A PERFECT SASH LOCK, *locking at every point where sash is held, with removable key*, locking *automatically*, and with *malleable iron bolts*, so located and so strong that the thief cannot control or force them.
- 8th.—The location of these Locks *prevents their becoming deranged* and getting out of order, or being *themselves broken* by battering against and *bruising the wood at top of window*.

Can the combined Good Points of all other Sash-Locks Follow this?

IS THIS NOT TRULY PERFECT?

☛ These Locks are easily applied to all windows, and cost no more than any standard old-time Sash-Lock. When their working is once seen, the public will use no other.

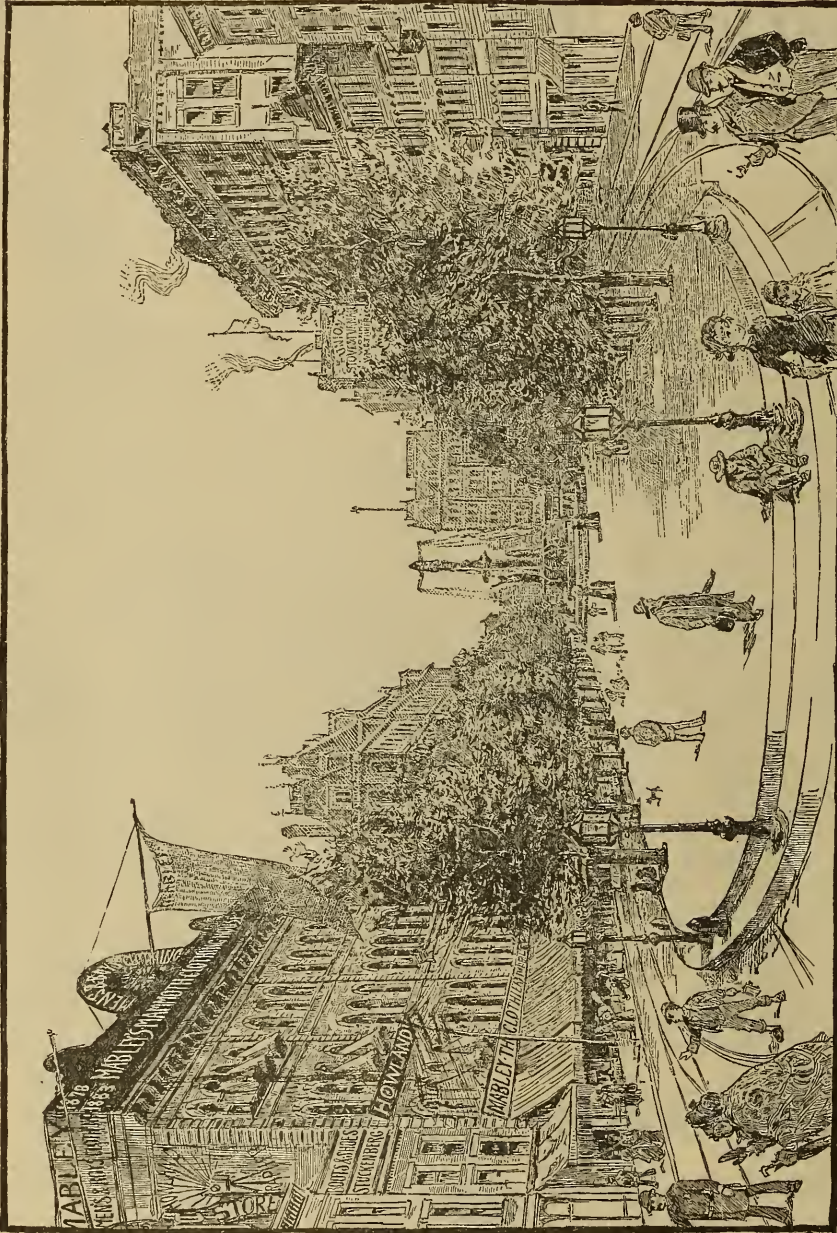
FOR CIRCULARS SHOWING MECHANISM OF LOCKS AND HOW APPLIED,  
AS ALSO FOR PRICE LISTS AND DISCOUNTS TO THE TRADE, APPLY TO

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PRINCIPAL OFFICE: 357 RACE STREET, COR. COURT,  
CINCINNATI, O.

J. Y. BASSELL, General Manager.

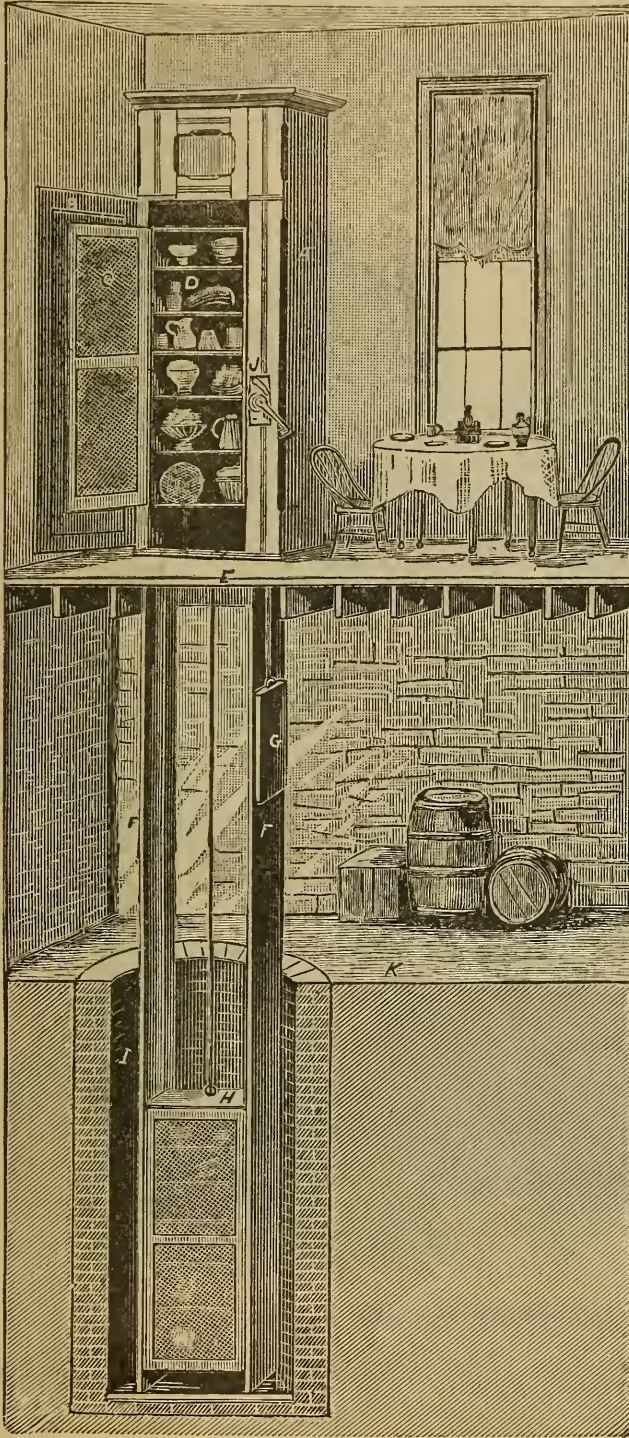




Esplanade, 5th Street, Probasco Fountain.



## ELEVATOR AND SAFE.



Is Novel in Construction,  
No Use for Ice.

Economical in Labor and Money, A Perfection of Usefulness,  
No Need of Going Down Cellar. Never Gets out of Order,  
*IS JUST AS USEFUL IN WINTER AS IN SUMMER.*

Address, **The M. A. Hunt Mfg. Co.,**

179, 181 and 183 West Second Street,

CINCINNATI, OHIO.





"In the Bear Pit at the Zoo."

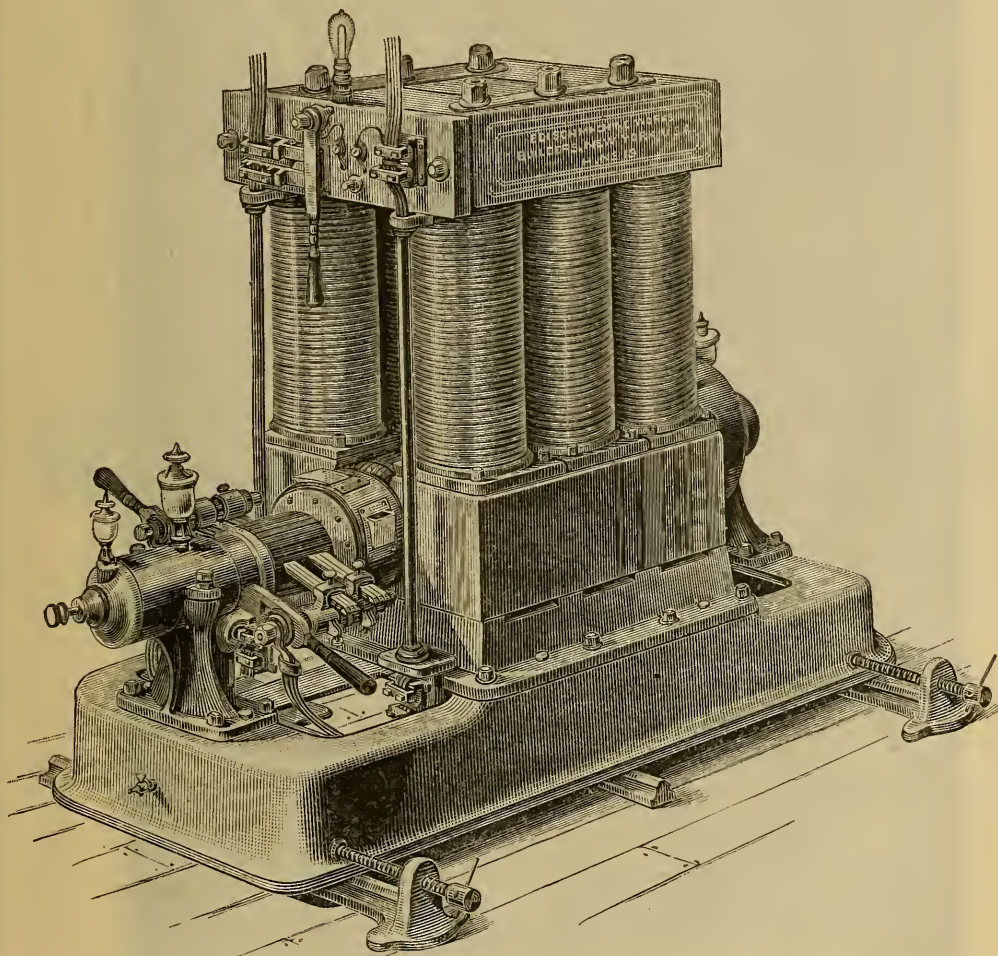


# The Edison Light.

→\*FIRST PRIZES AT THE\*←  
*Cincinnati Exposition, 1883.*

(FOR)

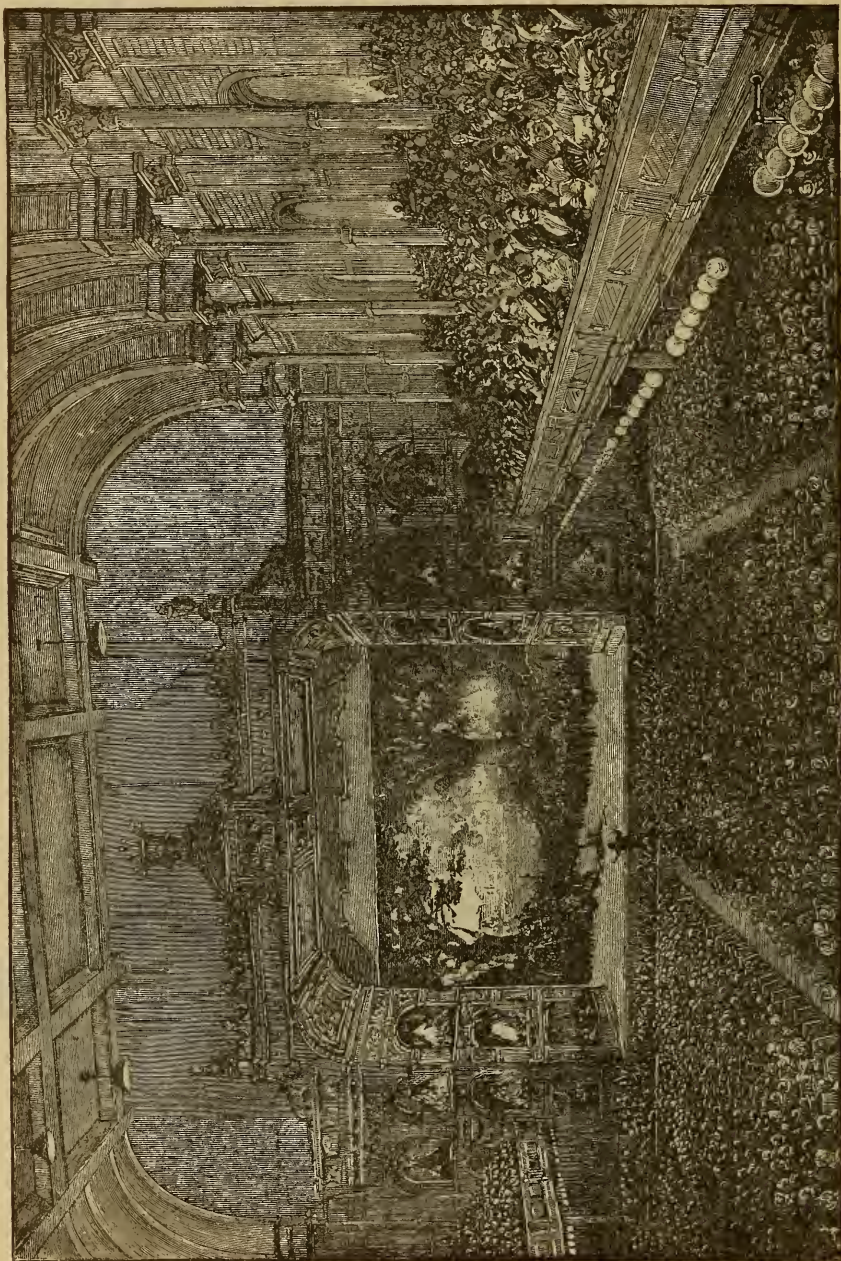
1. The best System of Incandescent Electric Lighting.
2. The best Incandescent Electric Light.
3. The best Incandescent Lamp Dynamo.



WERE AWARDED TO

*The EDISON COMPANY FOR ISOLATED LIGHTING,*  
85 Fifth Ave., NEW YORK CITY.





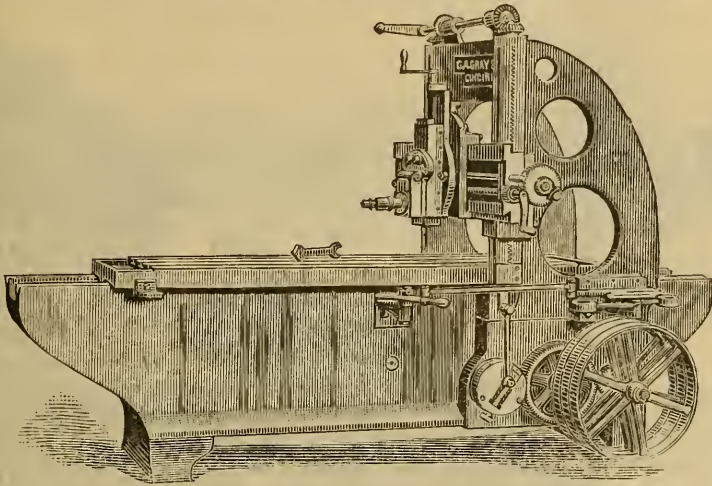
Interior View of Music Hall, Festival Season.



**G. A. GRAY, JR. & CO.,**

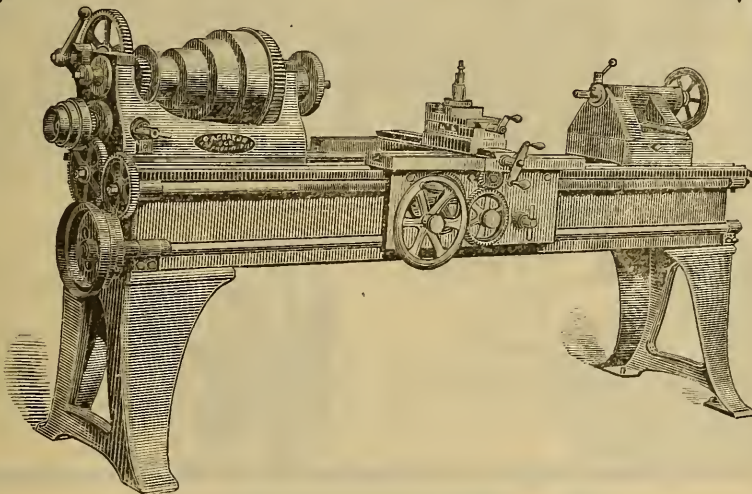
—MANUFACTURERS OF—

**Heavy Planers, Lathes,**



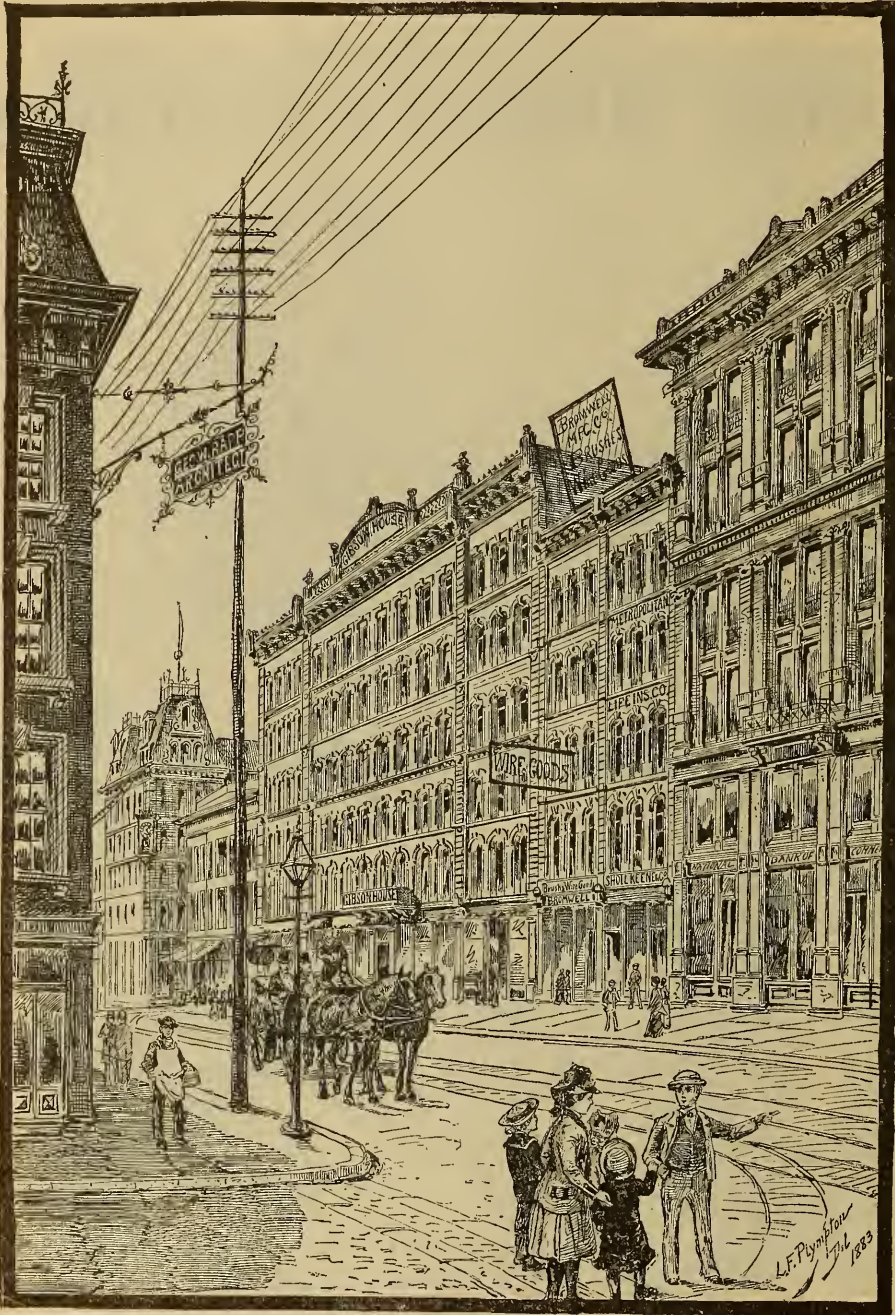
—AND OTHER—

**IRON-WORKING-MACHINERY,**



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Walnut Street, bet. 4th and 5th.

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THE

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OF

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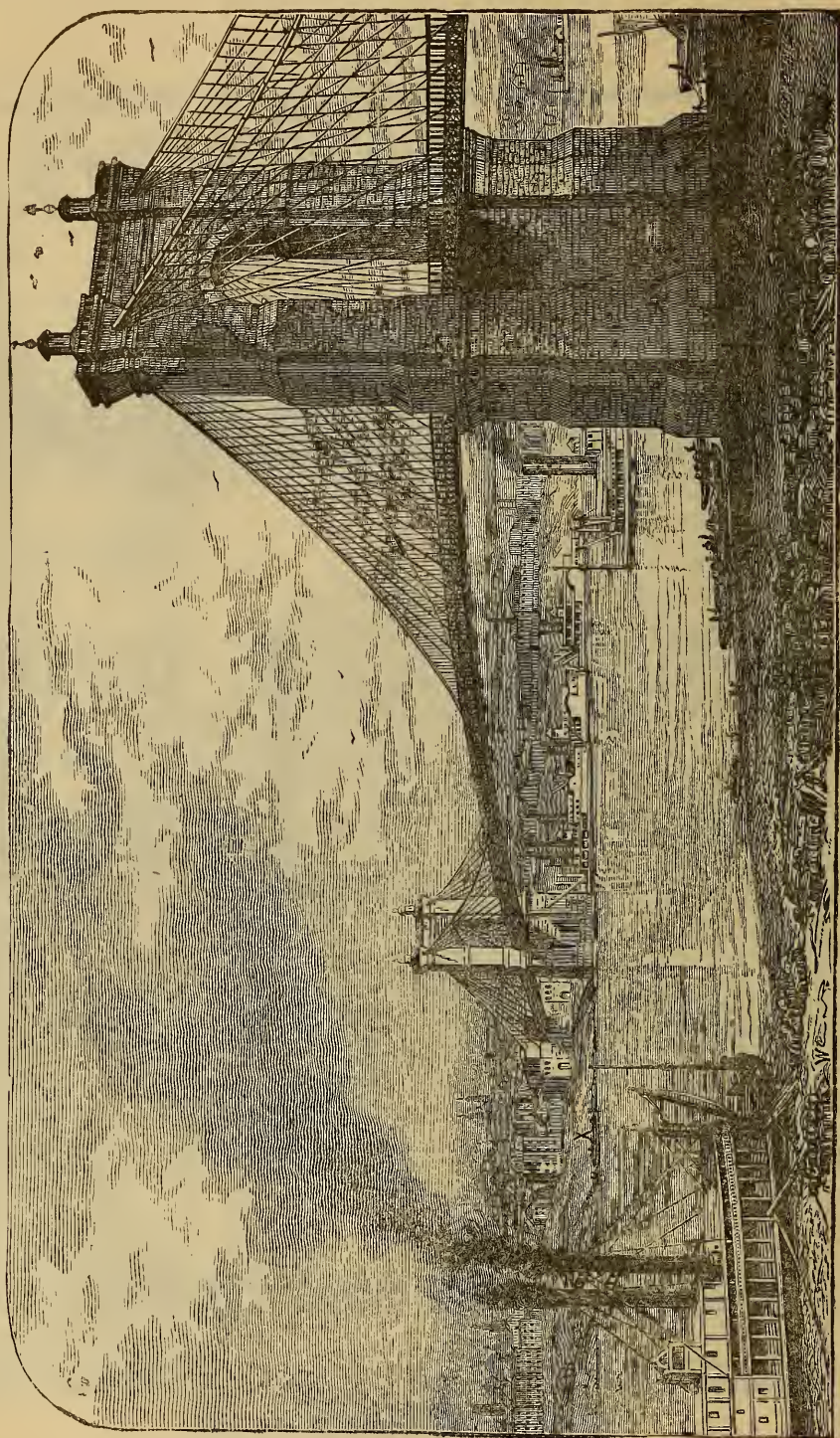
NEVER FAILS.

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SUSPENSION BRIDGE.



*P. P. Mast, President.*

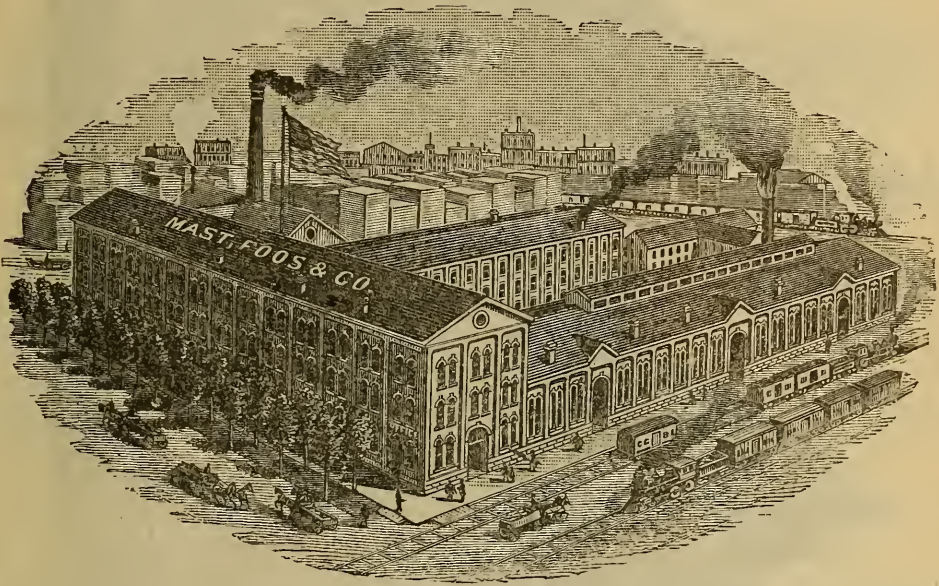
*Chas D. Hauk, Secretary.*

*G. E. Highley, Cashier,*

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LAWN MOWERS, FORCE PUMPS,

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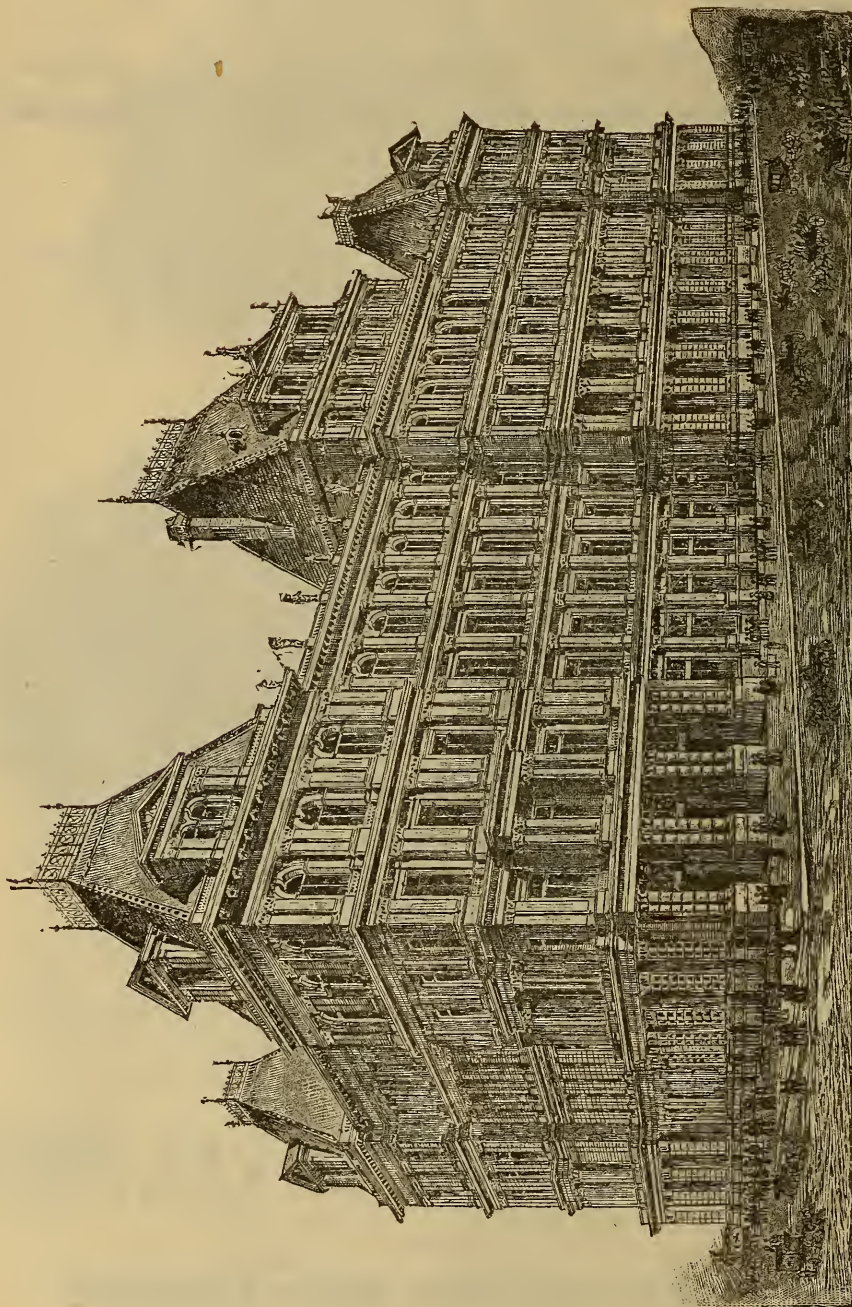
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**SPRINGFIELD, OHIO.**





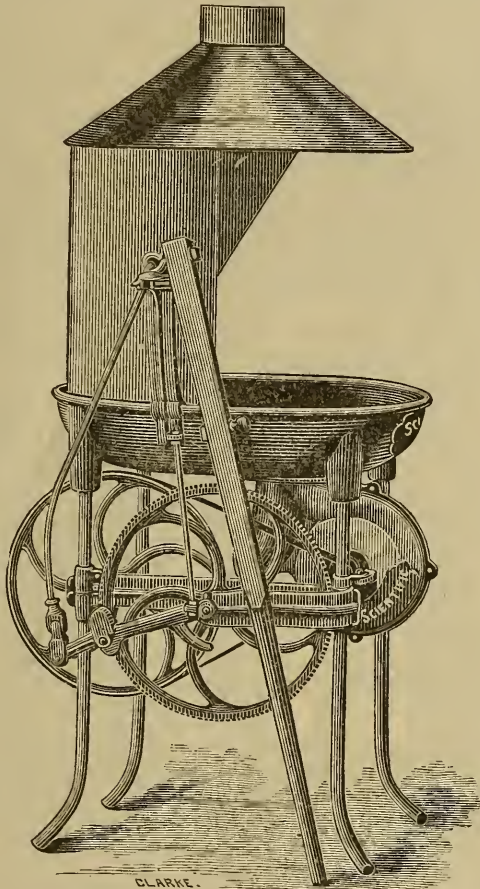
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# PORTABLE FORGE.

A DECIDED IMPROVEMENT OVER ANY MACHINE  
OF THE KIND ON THE MARKET.

ENTIRELY  
NEW  
PRINCIPLES.  
NO  
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OR  
FRICTION  
DEVICES,



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ESPECIALLY  
ADAPTED  
FOR THE USE  
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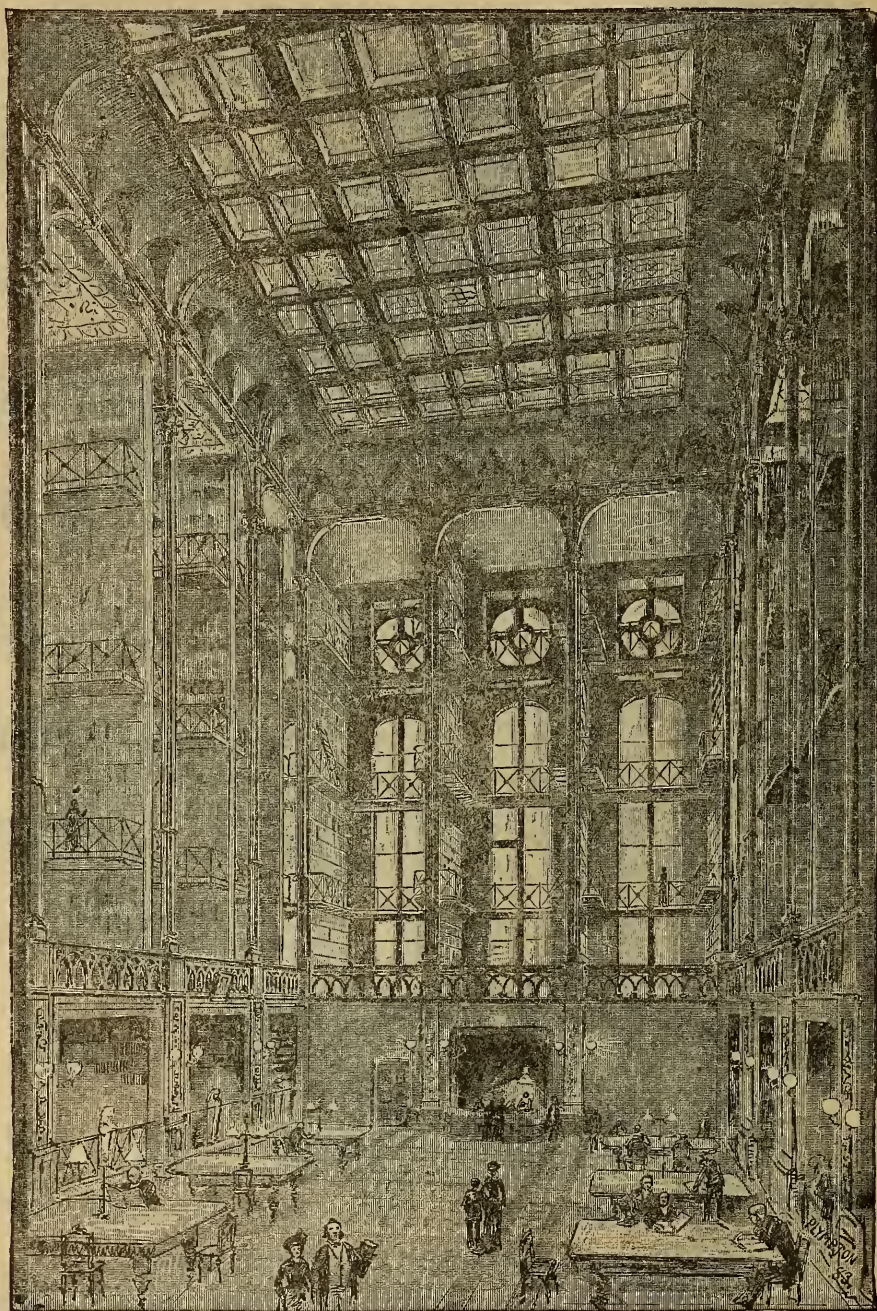
Manufacturers, Carriage Builders, Blacksmiths, Bridge Builders, Rail Road  
Co.'s, Mechanics, Inventors, and all Workers in Iron.

SATISFACTION GUARANTEED. FOR SALE BY THE TRADE.

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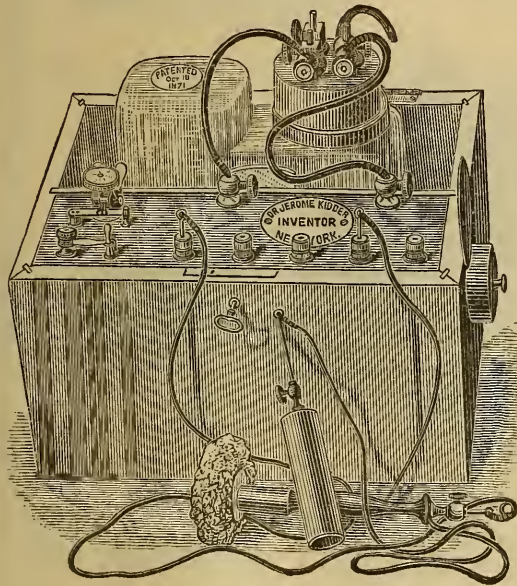
**ELECTRO-MEDICAL APPARATUSES**

**DISEASES CONQUERED. THE ENEMY ROUTED.**

Why suffer from the effects of Rheumatism, Gout, Neuralgia, Paralysis, Dyspepsia, Headache and Nervous Diseases, when you can procure the only positive eradicator of diseases and promoter of health? Our superior Electro medical apparatuses have stood the test and are pronounced invaluable as remedial agents for all classes of diseases.



**FROM AMERICAN INSTITUTE,**



In 1875, and the Highest Awards from  
1872 to 1883, inclusive for **The Best**  
**Apparatus either here or**  
**Abroad.**

**BRONZE MEDAL**

And First Premium at

**Centennial Exhibition, 1876.**

**HIGHEST AWARD.**

**SILVER MEDAL**

**From Charleston, S. C. Exhibition.**

**FALL OF 1882.**



**From Cincinnati Industrial Exposition,**  
**FALL OF 1881, 1882 and 1883.**

**Medal from Southern Exposition, at Louisville, Ky.,**

**FALL OF 1883.**

*And Highest Awards wherever and whenever exhibited in competition.*

**BEWARE OF ALL INFRINGEMENTS UPON OUR**

**Patent Tip Battery.**

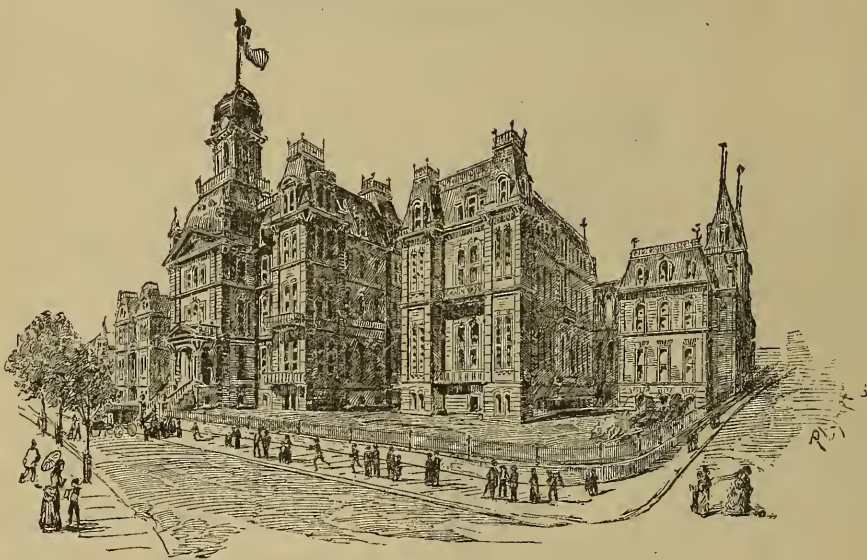
We are sole proprietors. All purchasers of Batteries infringing upon our patents, are held liable for Royalty (or cost of goods.) To distinguish the genuine from the spurious send for Illustrated Catalogue. Address,

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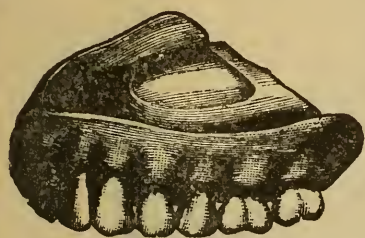




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EDWIN B. SWIFT, D. D. S.

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**\$5 PER SET.**

Warranted Useful, Substantial and Satisfactory.

No charge for Extracting when Sets are Ordered.

◆ **PURE FRESH GAS DAILY** ◆

GOLD FILLINGS, \$1.00.

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— In 1883. —

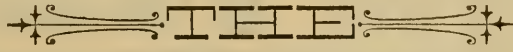
Parties from a distance by calling early in the morning can have Sets made the same day and return home on evening train. Refer to any one for whom I have done work. Send address on Postal Card for beautiful set of Picture Cards and Circulars.





Probasco Fountain.





# Philip J. Ritter Conserve Company

—OF—

563, 565 and 567 E. DAUPHIN ST., and

2015 and 2017 FRANKFORD AVE.

**PHILADELPHIA.**

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—MANUFACTURERS OF—

PRESERVED FRUITS, JELLIES and FRUIT BUTTERS.

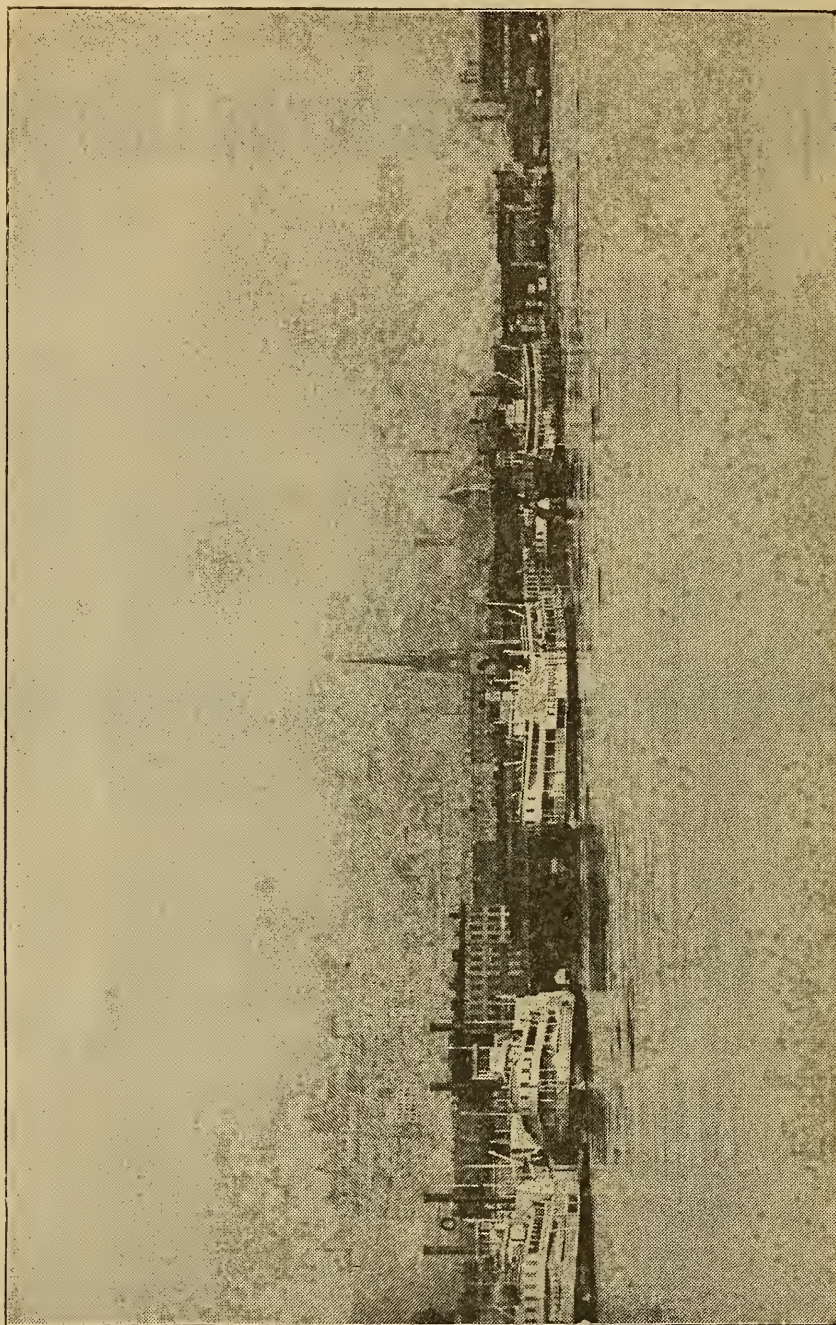
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Mr. Philip J. Ritter established the business now carried on under this style as far back as 1850, and rapid and steady progress has been the order of the day ever since. Being a practical confectioner, Mr. Ritter was better qualified to command success than many others who at one time and another have gone into such a line of business. In fact it may be said that he was the first man in the United States to put up preserves for sale. There are branches as follows:

New York, 346 Washington Street; Baltimore, Md., 89 West Lombard Street; Cincinnati, Ohio, 147 West Sixth Street; Boston, Mass., 58 Broad St.; Chicago, Ill., 15 Dearborn Street; Pittsburg, Pa., Penn Avenue and Eighth Street; Richmond, Va., 1314 Carey Street; St. Louis, Mo., 10 South Second Street, also in Rochester and Buffalo, N. Y., Louisville, Ky., New Orleans and Atlanta, Ga., besides agencies in nearly every large city in the Union. These goods have invariably taken first premium wherever exhibited.

*Took First Premium at Cincinnati and Louisville Ky. Expositions, 1883.*





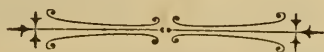
LEVEE LOOKING FROM COVINGTON.



# HUNTER'S SIFTER,

The Best and Always Ahead.

READ! READ! READ!



THE UNITED STATES CIRCUIT COURT,  
SOUTHERN DISTRICT OF OHIO. } S. S.  
Friday, November 9, 1883.

[ Case No. 3555 ]

J. M. HUNTER,  
AS THE HUNTER SIFTER M'F'G CO.  
VS.  
BRAINARD T. SMITH, E. P. SMITH  
AND L. E. LEVASSOR,  
AS THE SPECIALTY M'F'G CO.

FINAL DECREE.

This cause coming on to be heard for final determination, and it appearing that the defendants herein have filed an answer, and the plaintiff having submitted to the Court a copy of said Letters Patents and the Deeds of assignments showing Title from the original patentees.

Now, therefore, the Court being fully advised in the premises *do find* the issues of fact as presented by said bill and the equity of the cause in favor of plaintiff, and do order, adjudge and decree that the Letters Patents are valid Patents, and that the complainant is lawfully entitled, as set forth in said bill, and that the defendants have infringed the same in making, using and vending to others as charged in said bill of complainant, and that said complainant is entitled to have and is hereby granted a perpetual injunction to restrain said defendants, their agents and all others from making, using or vending said sifters.

[SEAL].

ATTEST:

WM. C. HOWARD, Clerk,  
U. S. Cir. Court, S. D. O.

THE COMMON PLEAS COURT, } S. S.  
OF HAMILTON CO., OHIO.

[ Case No. 68934. ]

M. HUNTER,  
AS THE HUNTER SIFTER M'F'G CO.  
VS.  
BRAINARD T. SMITH, E. P. SMITH AND L. E. LEVASSOR,  
AS THE SPECIALTY M'F'G CO.

FINAL DECREE.

This cause coming on to be heard for final determination, and the defendants in their answer admit the validity of the plaintiff's trade mark.

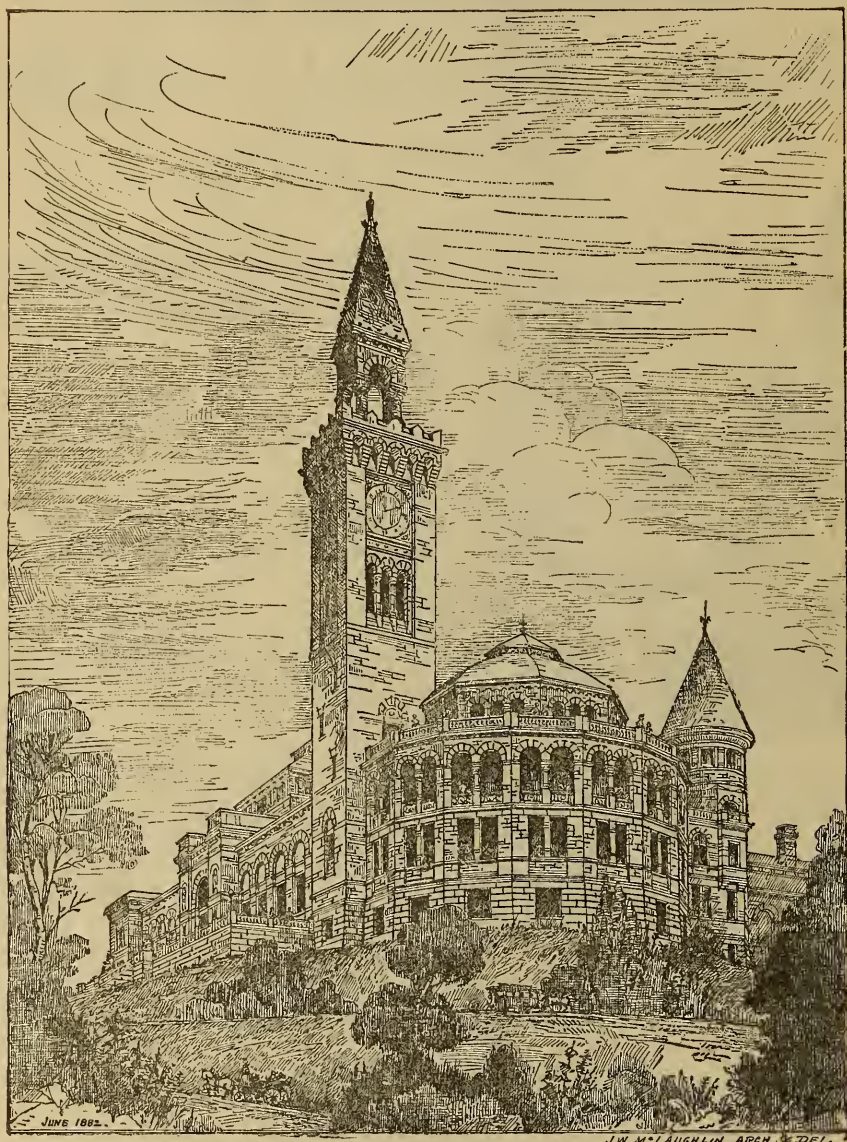
Now, therefore, the court do find the said issues of fact as presented by said petition, and the equity of the cause for the plaintiff, and do hereby order, adjudge and decree that the injunction now existing herein be, and the same is, hereby made perpetual against the said defendants.

[SEAL].

DANIEL J. DALTON,  
Clerk of said Court.

Sold by leading Dealers everywhere. Their Stock is not complete without them.





Cincinnati Museum (Eden Park.)

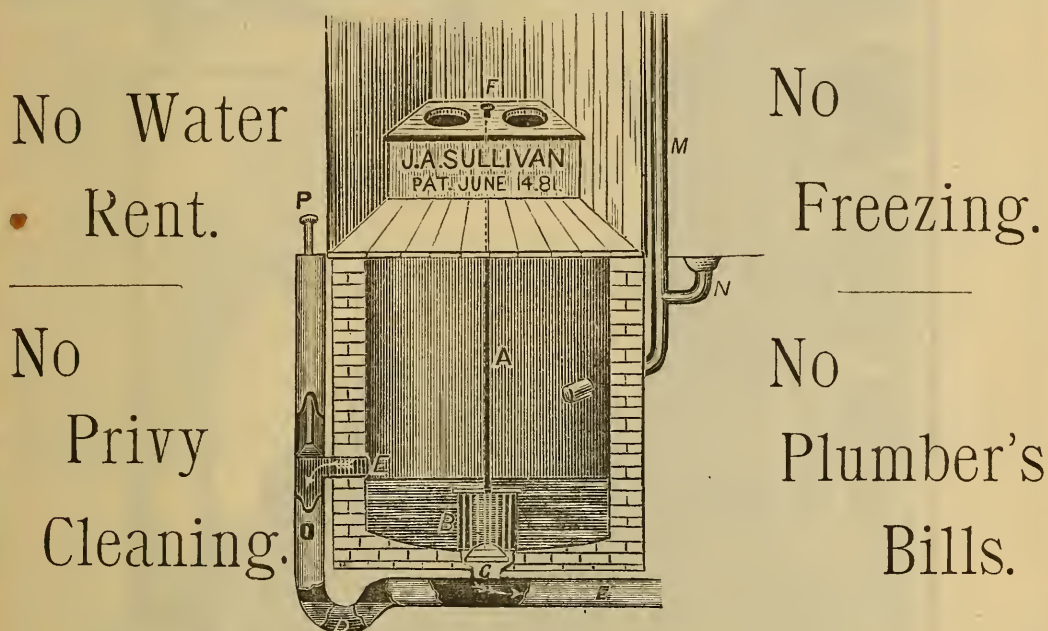
# SULLIVAN'S

## New Sanitary Device,

### CATCH BASIN WATER CLOSET.

PATENTED JUNE 14, 1881.

*First Premium at Cincinnati Exposition, 1882 and 1883.*



No Water  
Rent.

No  
Privy  
Cleaning.

No  
Freezing.

No  
Plumber's  
Bills.

**NO WATER RENT**, as it is cleansed by the waste water from house, yard, etc.

**NO PRIVY CLEANING**, as its contents are emptied into the sewer.

**NO FREEZING**, and simple in construction, therefore requiring very little attention and **NO PLUMBERS BILLS**.

Estimates for the construction of the above and all kinds of sewers and drain pipe work will be gladly furnished by the Patentee and Builder.

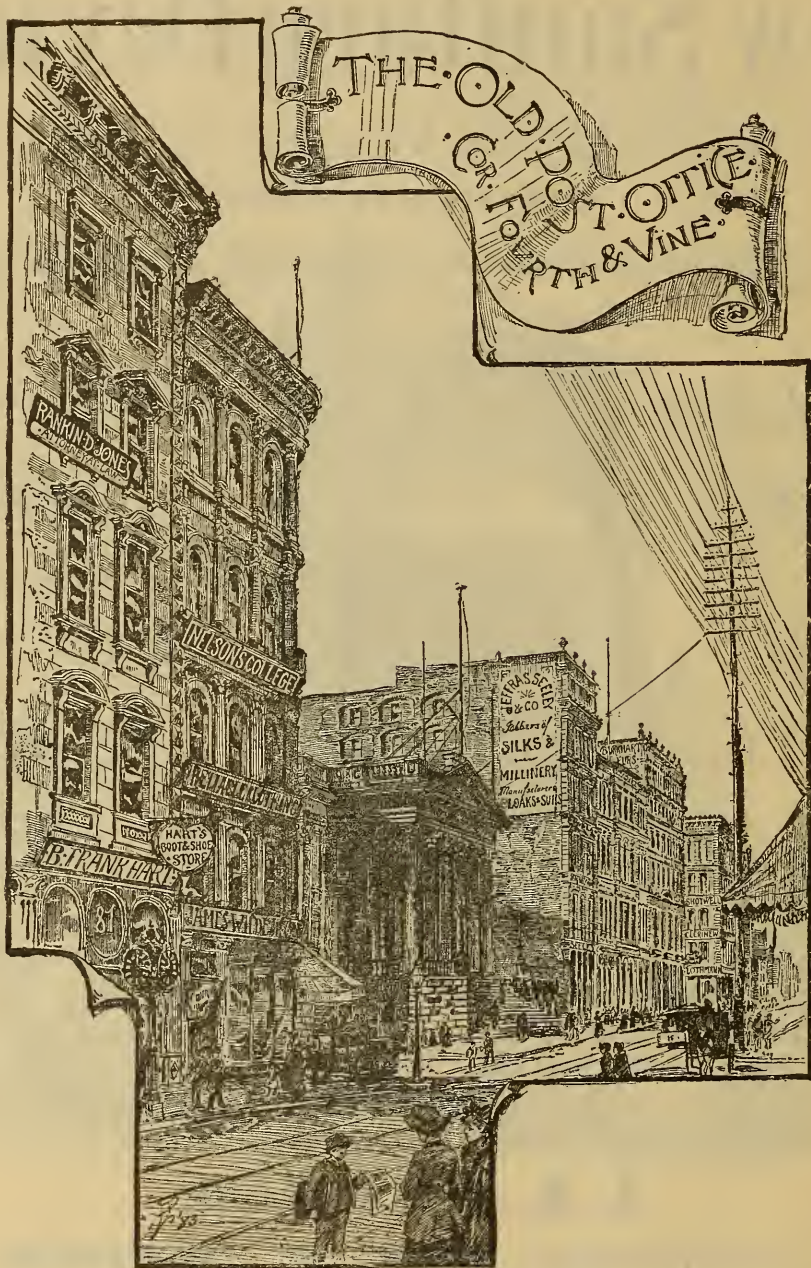
**J. A. SULLIVAN,**  
**LICENSED SEWER TAPPER,**

OFFICE, 206 CENTRAL AVE., CINCINNATI, O.

Box, 102 BUILDERS EXCHANGE.

DRAIN PIPE, etc. FOR SALE,





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VICE PRESIDENT.

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W. J. MUNSTER  
SECRETARY.

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*Cincinnati Coffin Co.*

— MANUFACTURERS OF —

**WOOD, CLOTH COVERED AND METALIC**

**BURIAL CASES & CASKETS,**

**⇒\*ALSO UNDERTAKERS\*⇒**

*Trimming's and Hardware.*

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**RICHMOND, CARR AND FILMORE STS.,
CINCINNATI, O.**

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Branch Houses, { Chicago, Ill. 19 Lake Street.  
                          { Quincy, Ill. 26 and 28 North 3rd St.

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This Company received Premiums at the 11th Industrial Exposition, Sept. 1883.

Gold Medal for Best General Display of Burial Cases.

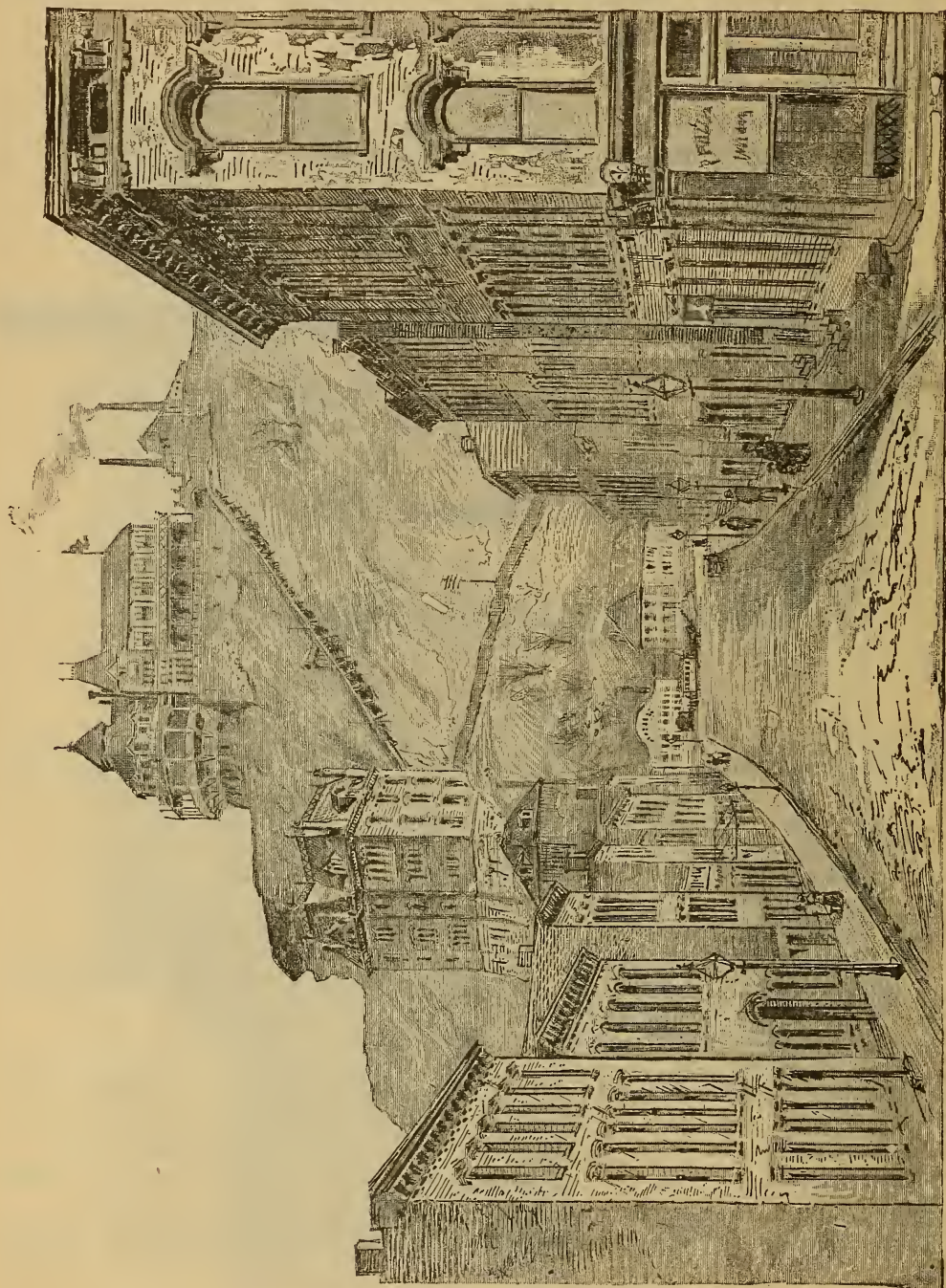
Also Silver Medal for Best Display of Wooden Burial Cases.

Also Silver Medal for Best Display of Burial Trimmings.

Also Silver Medal for Best Display of Undertakers Hardware.

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**Correspondence invited from those desiring Goods in our line.**

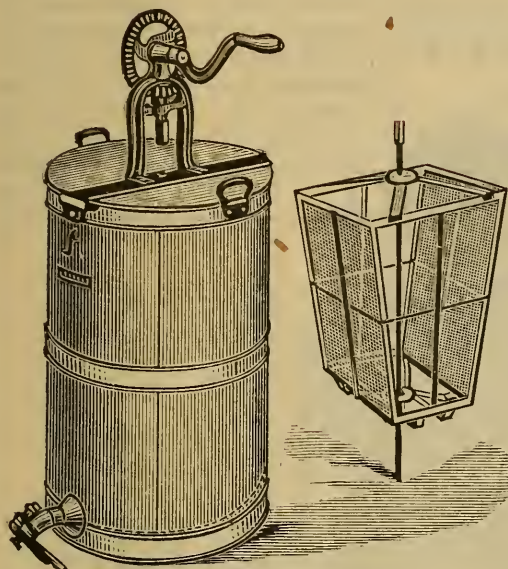




Bellevue House.



# Pure Honey.



Muth's Standard Extractor.

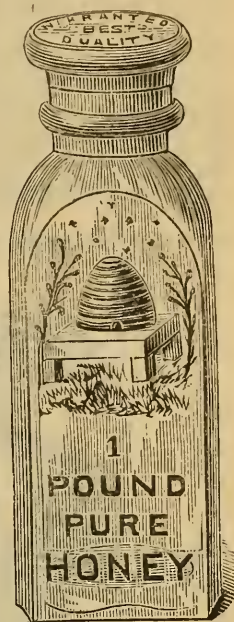
**Muth's Honey  
EXTRACTOR.**

**BEE-KEEPER'S  
SUPPLIES.**

**Landreth's  
GARDEN SEEDS, etc.**

**Catalogues and Price  
Lists mailed on application.**

**Muth's  
PURE BAKING  
Powder,  
IS NOT EXCELLED.**

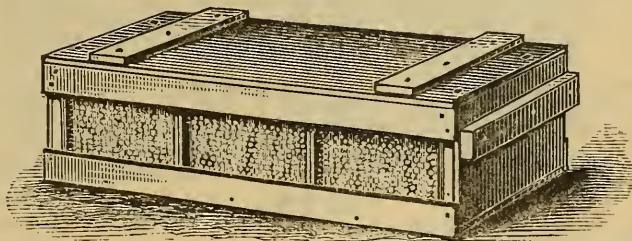
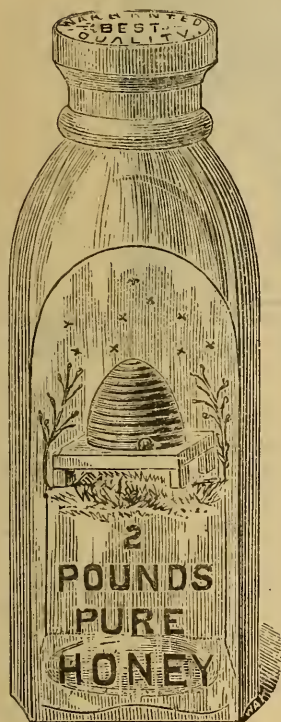


—Apply to—

## CHAS. F. MUTH,

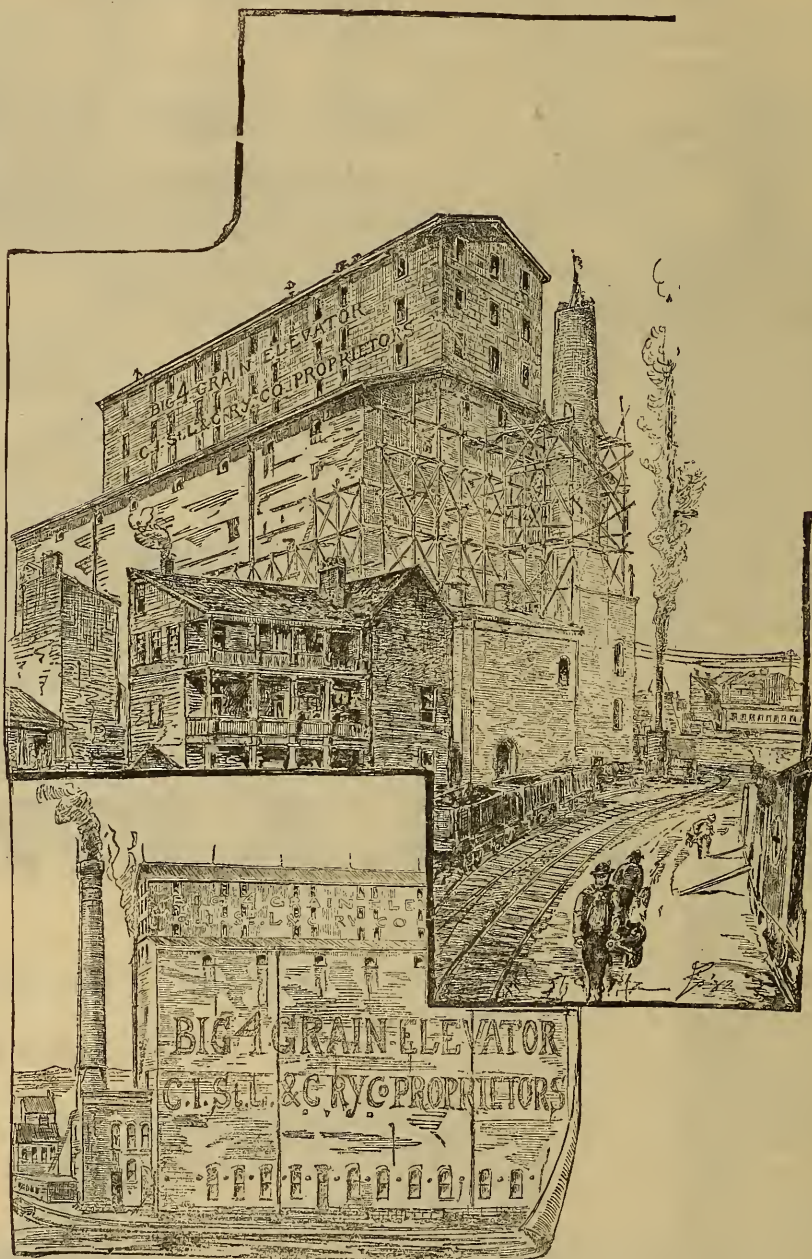
S. E. COR. FREEMAN AND CENTRAL AVE.

CINCINNATI, O.



**P. S.—PRACTICAL HINTS TO BEE-KEEPERS WILL BE  
MAILED ON RECEIPT OF 10 CENTS IN POSTAGE STAMPS.**





"Big 4" Grain Elevator.

## The Green Mountain.

**Maple Syrup** and **Maple Sugar** is made from the sap of the Sugar Maple tree, and is the "**Simon pure**" article. Ask for the **Green Mountain Brand**, and take no other. **It is pure**, and took the **First Premium** at the Cincinnati Exposition of 1883. The Syrup is sold in square cans, and stencilled "The Green Mountain Maple Syrup."

÷WHOLESALE÷

DEALER IN

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**VEGETABLES,**

—AND—

**PRODUCE.**

## —THE— Chesapeake Oyster Co.

Own their own grounds and shuck and ship oysters the same day they are taken out of the water.

The Company has appointed J. E. HOPKINS, of Cincinnati, O., its agent for the States of Ohio, Indiana and Kentucky, and all orders and communications from these three States must go to him.

# J. E. HOPKINS,

→\*GENERAL\*←

## Commission Merchant,

196 W. Sixth St., and 61 George St.

Cincinnati, Ohio.

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CONSIGNMENTS SOLICITED.

HEINZ'S KEYSTONE BRAND.

Of Pickles and General Condiments are **delicious in flavor** and **immensely popular**, and are meeting with unbounded favor wherever introduced. Their **Celery Sauce** is an excellent **nerve-food**, and their **Tomato Catsup** is made from whole tomatoes, and not from skins and seeds. **All** their goods are A. 1. They took **First Premium** at the Cincinnati Exposition of 1883.

SHIPPER OF

Fresh Oysters,

+CELERY,+

—AND—

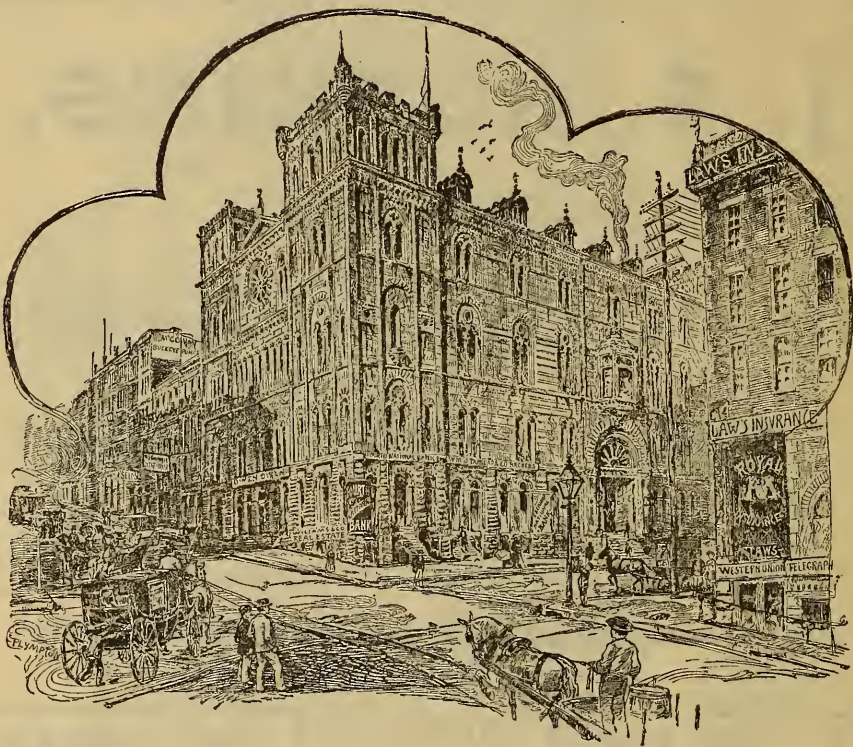
Fancy Groceries

Joseph Campbell & Co's

Fruit Butters, Jellies, Preserves, and Mince Meat.

Are **pure and unadulterated**. They are found on the tables of the rich, and the poor buy them because they are **cheap**. They have become a necessity in thousands of families.

Campbell took **First Premium** at the Centennial Exposition, and his goods have been greatly improved since that time. They are the best in the land.



Masonic Temple.

FIRST CLASS ARTIFICIAL LIMBS.

RECEIVED EVERY MEDAL AWARDED

AT CINCINNATI EXPOSITION,

FOR BEST ARTIFICIAL LIMBS,

SINCE 1870.

Also Highest Award at the International Exposition,

ATLANTA, GA.

GULF STATES EXHIBITION AT NEW ORLEANS,

AND THE VARIOUS STATE FAIRS, MAKING OVER

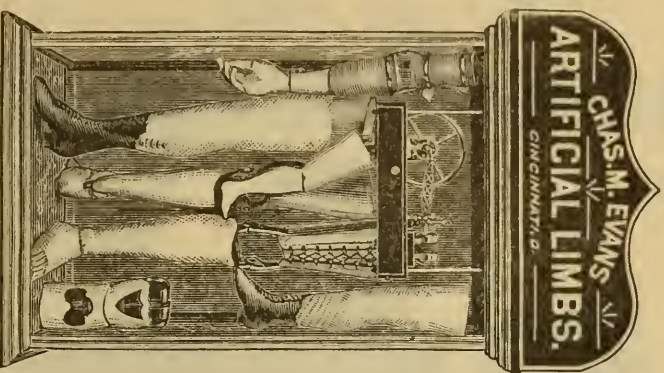
TWO DOZEN FIRST PREMIUMS.

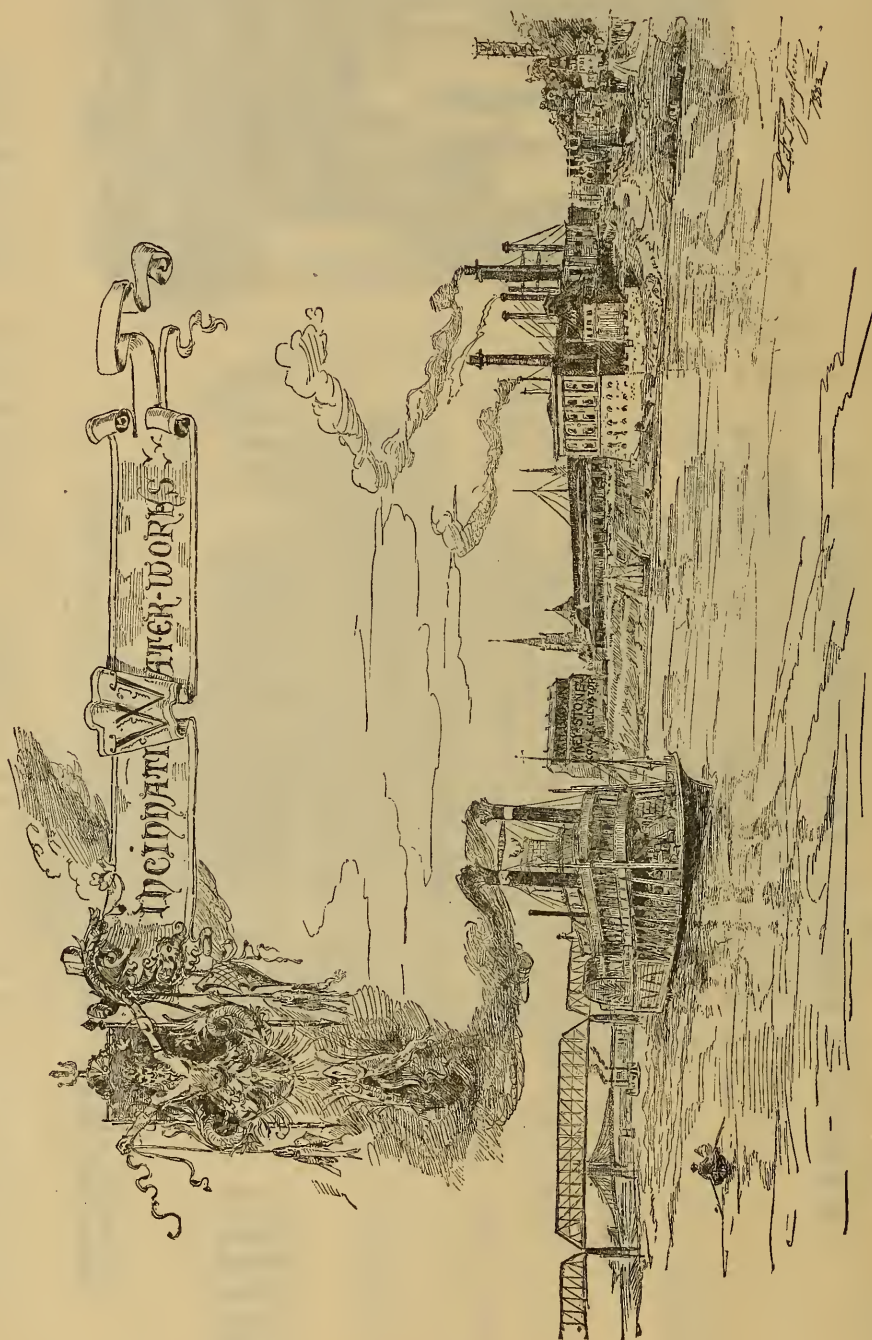
SATISFACTION GUARANTEED ALL CUSTOMERS.

CHAS. M. EVANS,

U. S. GOVERNMENT MANUFACTURER,

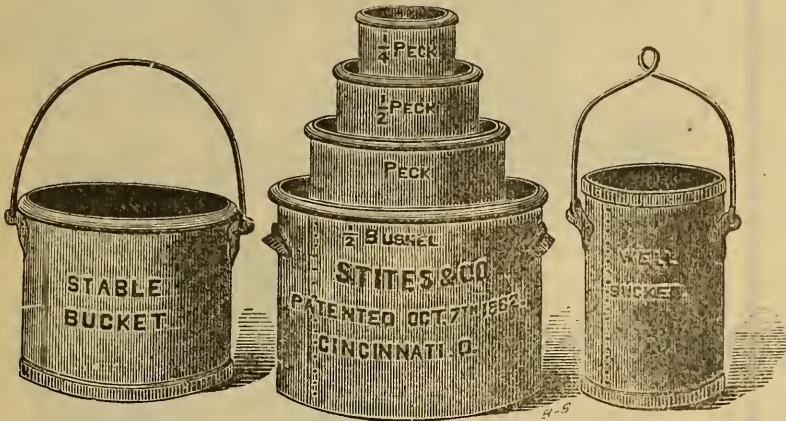
Cincinnati, O.





Cincinnati Water Works.

STITES & CO., Standard Iron Measures.



Also BUCKETS and PAINT PAILS.

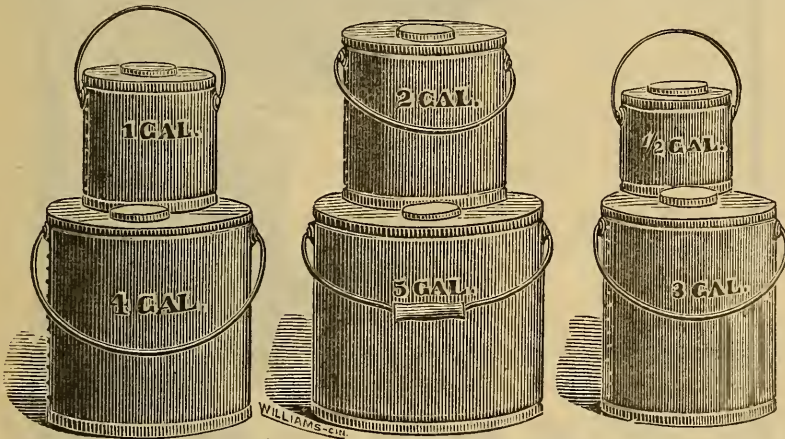
**Corn, Coal and Lime Bushels, Half Bushels and all the smaller sizes;
Steamboat, Stable and House Buckets; Also Well Buckets, Self
Emptying Well Buckets and Stock Well Buckets.**

They are made of a superior quality of Sheet Iron, with Wooden Bottoms bound with Iron before they are put in, and Hoops shrunk on, same as a tire is put on the wheel of a wagon.

IT IS ECONOMY TO BUY THEM.

The Measures are always correct, and are not injured by rats or other animals. The Buckets do not fall to pieces when exposed to the sun.

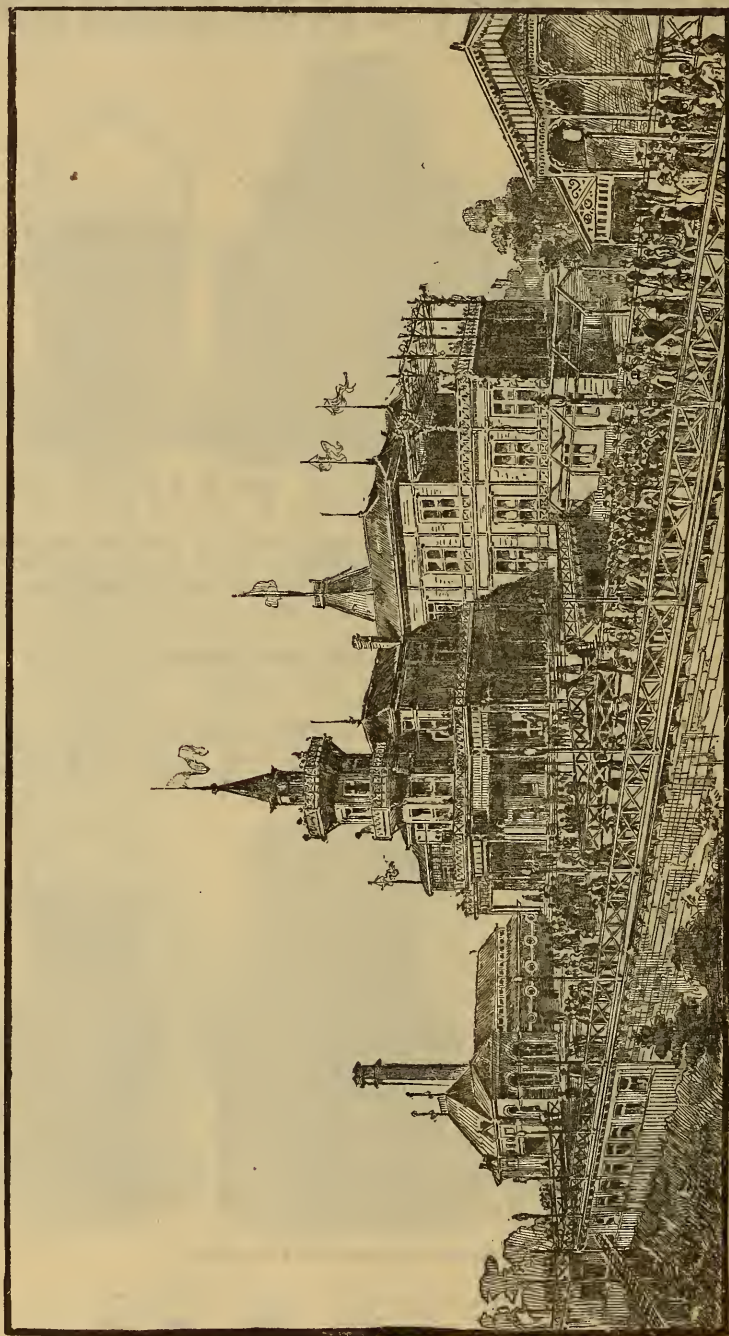
**FOR SALE BY ALL THE LEADING HARDWARE HOUSES.
IRON PAINT PAILS FOR MIXED PAINTS &c.**



Patented September 16, 1873.

Send for Circulars and Price List.

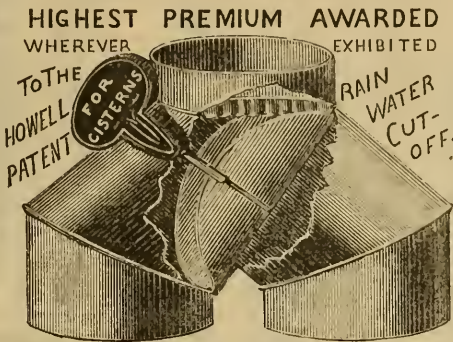
**STITES & CO.,
Manufacturers,
1590 Eastern Ave., CINCINNATI, O.**



Highland House.

Howell's

Patent

Architects, Builders and
Plumbers.

—RECOMMENDED BY—

Rain Water Cut-Off for Cisterns.

As represented by cut, for turning water into or off from the cistern. The cut shows all the pipes as being round, it having a portion of the shell removed, in order to show plainly the working of the bucket, or valve. The handle, which is an iron weight, insures the bucket remaining where placed, and entirely prevents its being turned by the downflow of water. It is shown in the cut as being on the left side, therefore throwing water down the left branch. By merely turning the handle to the right side the flow of water is changed in that direction. The bucket or valve passes behind the rim at the top and overlaps at the bottom, thus securing perfect water joints at both connections. The down spout of the building enters the top rim of the Cut-off, one of the lower branches leads to cistern, whilst the other can be arranged to convey the water into the waste pipe or gutter, as desired. By this simple contrivance you are relieved of the annoyance of slip joints, loose elbows, getting wet, &c., &c. It will readily be seen that a child can manage it, and there is no chance for it to get out of order. Besides, it is the cheapest, and we boldly say, the very best article for the purpose ever offered to the public.

They are made of Tin and Galvanized Iron, are light, cheap and durable. Can be used in any position, with or without extra pipe, and does not splatter water all over sidewalks, but directs its flow wherever desired. Special attention is called to the Material and Workmanship.

We manufacture all sizes from 2½ into 24 in. 2½ - 3 - 3½ - 4 - 5 and 6 inch sizes, always in stock, packed in crates of one dozen each, Size up to 5 in. 5 and 6 in., in crates of half dozen each, F. O. B. No charge for crates.

FOR SALE BY DEALERS ALL OVER THE UNITED STATES.

HOWELL & CLENDENING,

—MANUFACTURERS—

COVINGTON, KY.



Queen City Club House.

Medals Awarded by Cincinnati Exposition, 1874, 1882, 1883.

SPECTACLES

KEY GLASSES,

OPERA and FIELD GLASSES

SPY GLASSES,

MICROSCOPES

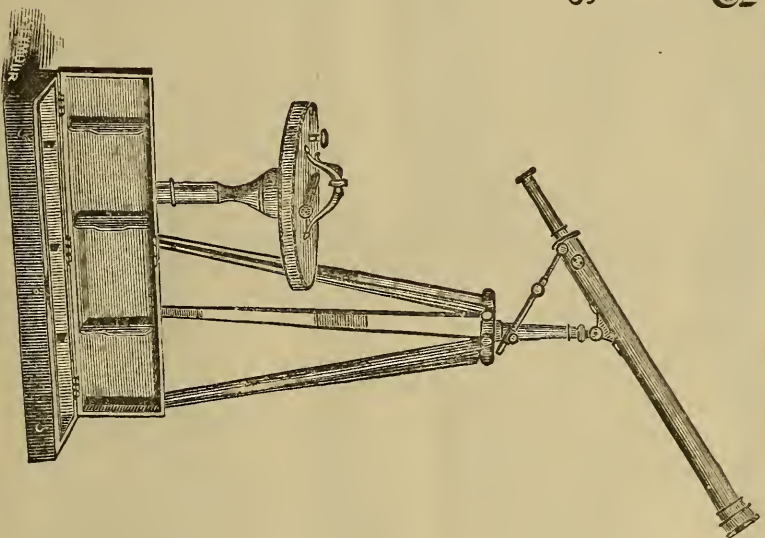
FOR

Students and Physicians.

BAROMETERS,

THERMOMETERS,

&c.



The most complete stock in the
West of

Engineers and Surveyors

Transits,

Levels,

Compasses,

Chains,

DRAWING INSTRUMENTS,

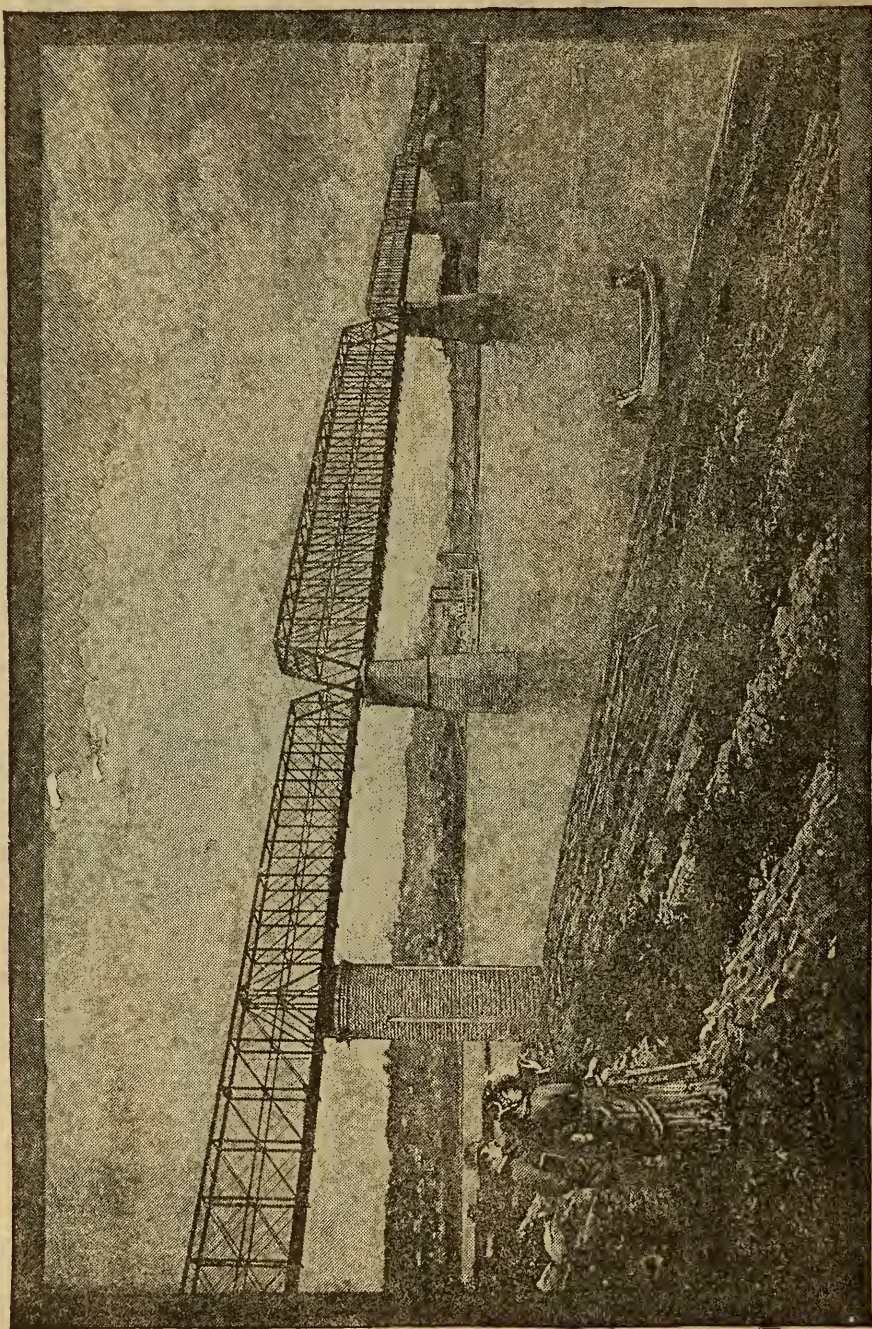
PAPER &c.

Send Stamp for Catalogue.

L. M. PRINCE, OPTICIAN,

NO. 148 WEST FOURTH STREET,

CINCINNATI, O.



Cincinnati Southern R. R. Bridge.

Queen AND Crescent Route.

Cincinnati, New Orleans & Texas Pacific Railway Co.

OPERATING

Cincinnati Southern Ry	336 miles.
Alabama Great Southern R. R.	295 "
New Orleans & North Eastern R. R.	196 "
Vicksburg & Meridian R. R.	140 "
Vicksburg, Shreveport & Pacific R. R.	186 "
Total.....	1153 "

DIRECT SHORT LINE. under united management, from Ohio, to the Gulf, with through car line connections to the South Atlantic Seaboard and

TO FLORIDA.

THE TOURIST'S FAVORITE ROUTE.

Send for copy of "WINTER CITIES IN A SUMMER LAND;" a Free Guide Book.
Gives Routes, Rates, Hotels and Boarding Houses.

THROUGH CAR LINES.

ROUTE NO. 1. Cincinnati and New Orleans. Over Cin. So., Ala. Gt. So., N. O. & N. E. Railways. Leave Cincinnati twice daily, 8.30 a. m. 8.25 p. m. Solid Trains and Pullman Cars.

ROUTE NO. 2. Cincinnati and Vicksburg. Over Cin. So., Ala. Gt. So., V. & M. Railways. Leave Cincinnati daily, 8.25 p. m. Pullman Cars between Eutaw and Cincinnati and Vicksburg.

ROUTE NO. 3. Cincinnati and Jacksonville, Fla. Over Cin. So., W. & A., Cent. of Ga., Waycross Line. Leave Cincinnati daily, 8.30 a. m. Pullman Hotel Cars.

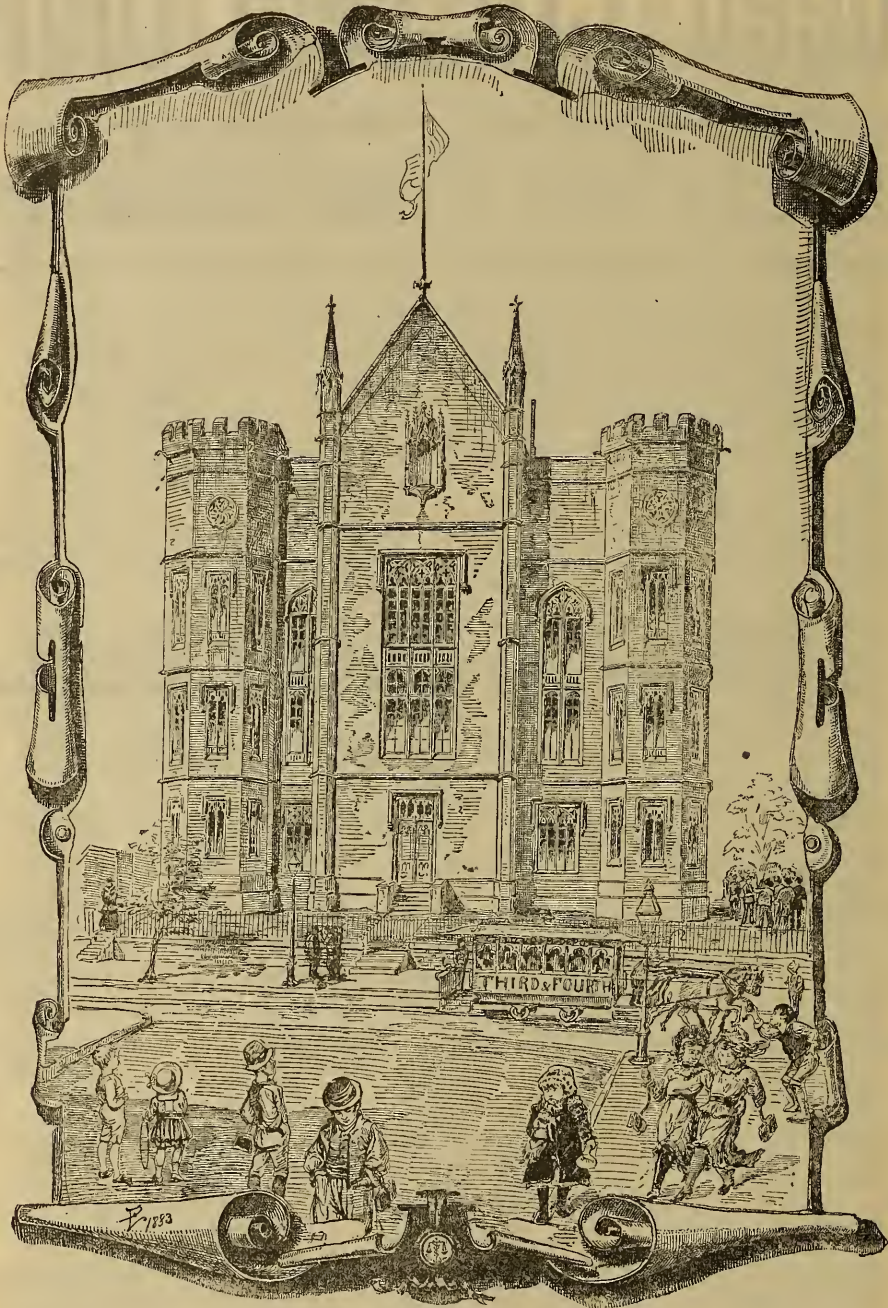
ROUTE NO. 4. Cincinnati and Jacksonville, Fla. Over Cin. So., W. & A., B. & W. and Waycross Line. Leave Cincinnati daily, 8.25 p. m. Pullman Sleeping Cars.

ROUTE NO. 5. Louisville and Atlanta. Over Cin. So., and W. & A. Leave Louisville (Tenth and Maple Streets), 7.30 p. m. Pullman Sleeping Cars.

DIRECT LINE TO WORLD'S EXPOSITION, NEW ORLEANS, DECEMBER, 1884.

JOHN SCOTT, P. & G. M. R. CARROLL, Gen'l Supt. E. P. WILSON, G. P. A.

CINCINNATI, O.

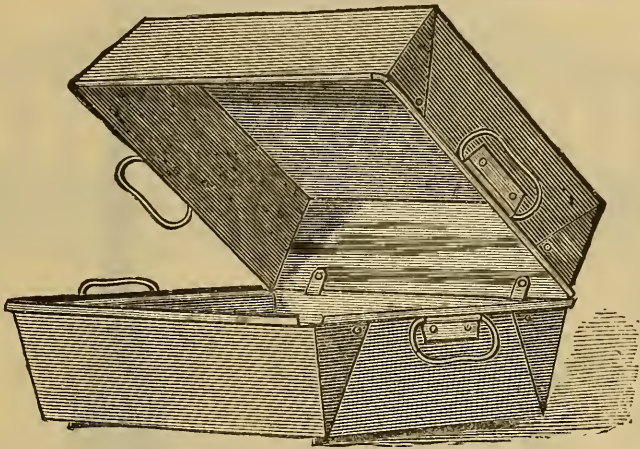


Hughes High School.

WACHS & BRO.

Improved Roaster and Baker.

SILVER MEDAL
Awarded at
CINCINNATI EXPOSITION.
1883.



HIGHEST PREMIUM
Awarded Wherever
EXHIBITED.

The Simplest and Best Cooking Utensil in the WORLD.

KEEPS IN ALL THE FLAVOR OF WHAT-
EVER COOKED,
BREAD, MEAT, POULTRY OR FISH.

"Uniformity in Cooking will make Thousands Happy."

AGENTS WANTED.

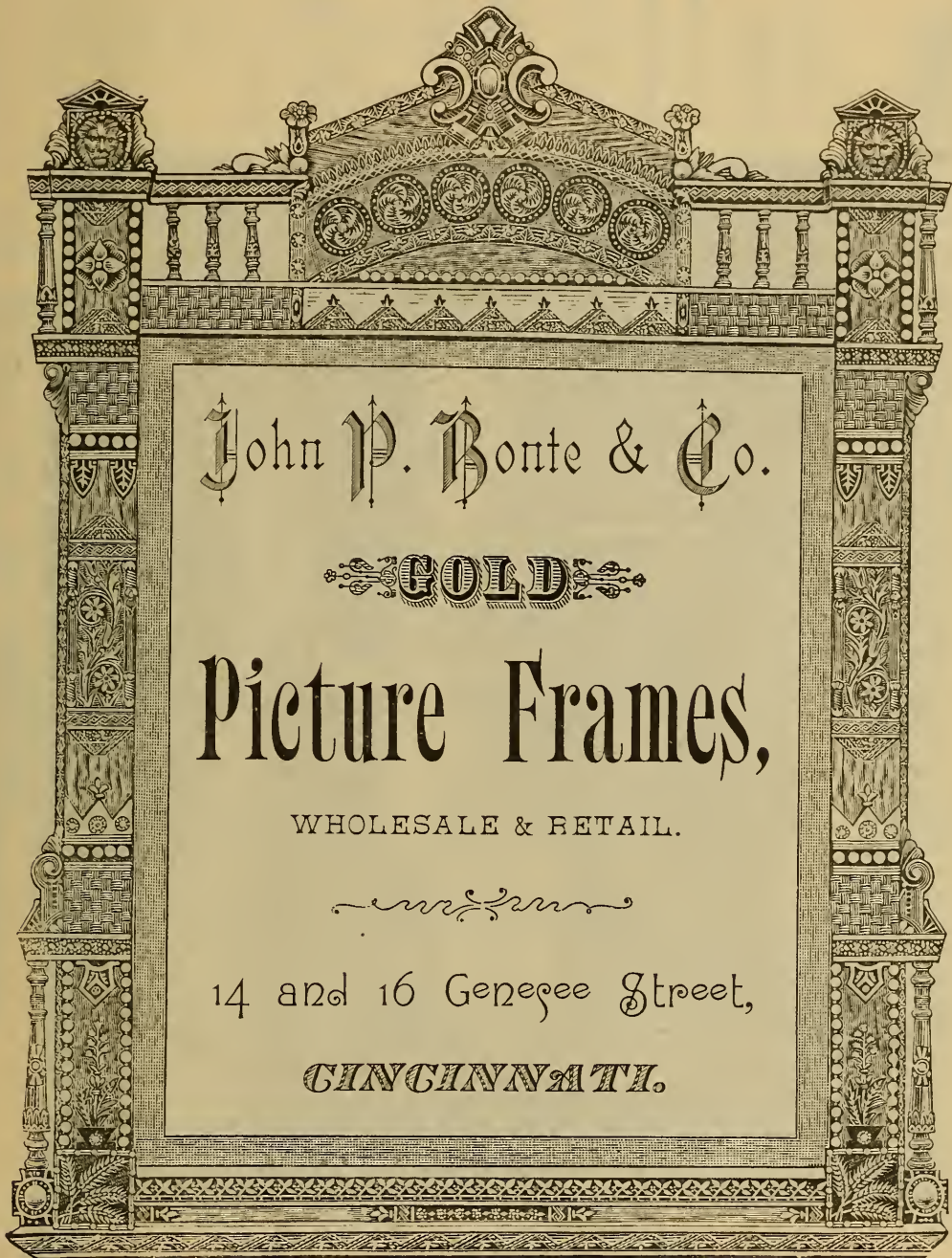
WM. WACHS & BRO.

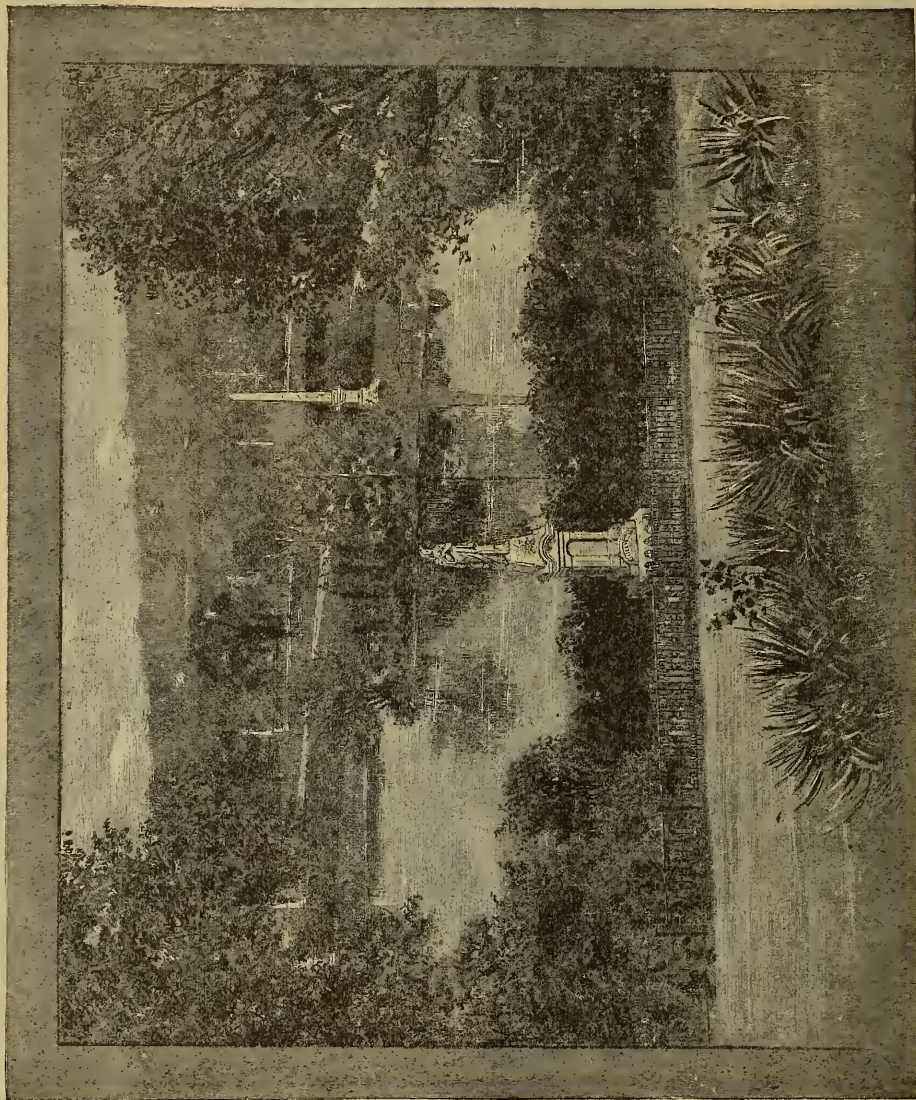
287 Pike Street,

COVINGTON, KY.



GARFIELD PLACE.





SCENE IN SPRING GROVE.

BENJAMIN STONEWARE CO.

ESTABLISHED IN 1849.

Manufacturers of all kinds of Best OHIO STONEWARE.

HARD BURNT JUGS, FROM $\frac{1}{4}$ to 5 GALLONS, FOR DRUGGISTS AND LIQUOR DEALERS A SPECIALTY.

JARS from $\frac{1}{4}$ to 25 Gal MILK PANS, CHURNS, BUTTER JARS, ACID JARS, COFFEE JARS, WATER COOLERS, STONE PIPES, &c.

AGENT FOR

BEST BRAND

Sewer Pipe,

Chimney Tops,

CHIMNEY

FLUES,

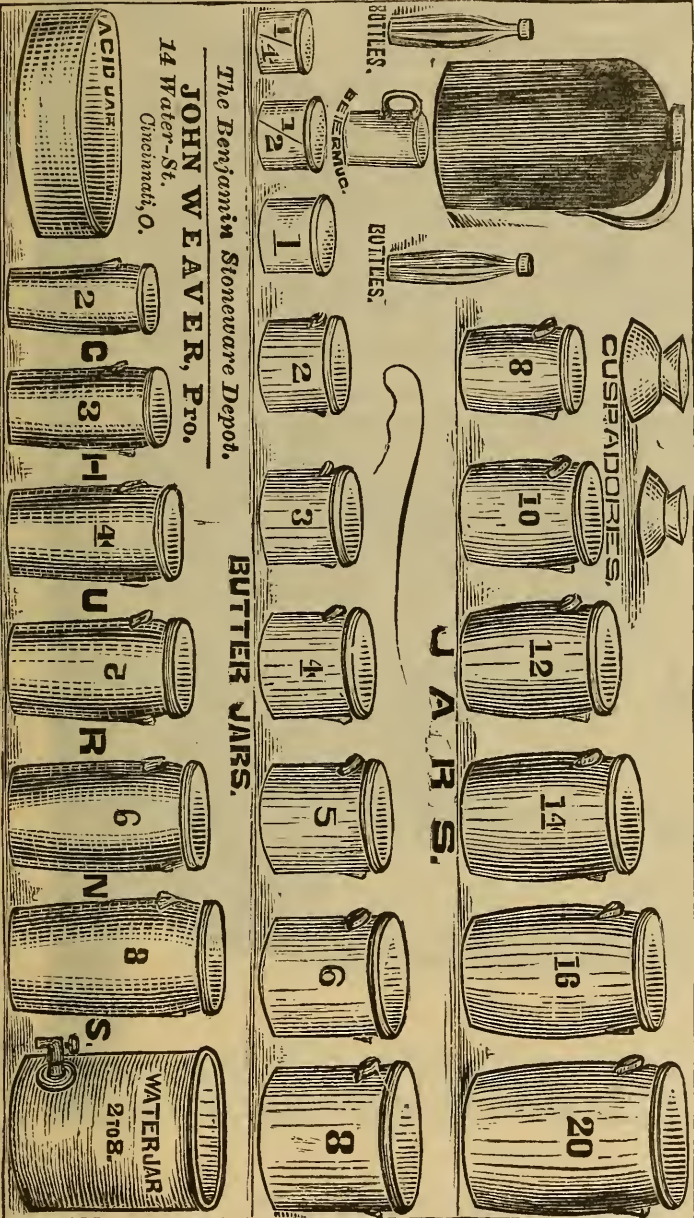
Drain Tile,

FIRE BRICK,

VASES AND

FLOWER POTS.

Send for Price List and
Rates on Car Lots or less.



The Benjamin Stoneware Depot.

JOHN WEAVER, Pro.

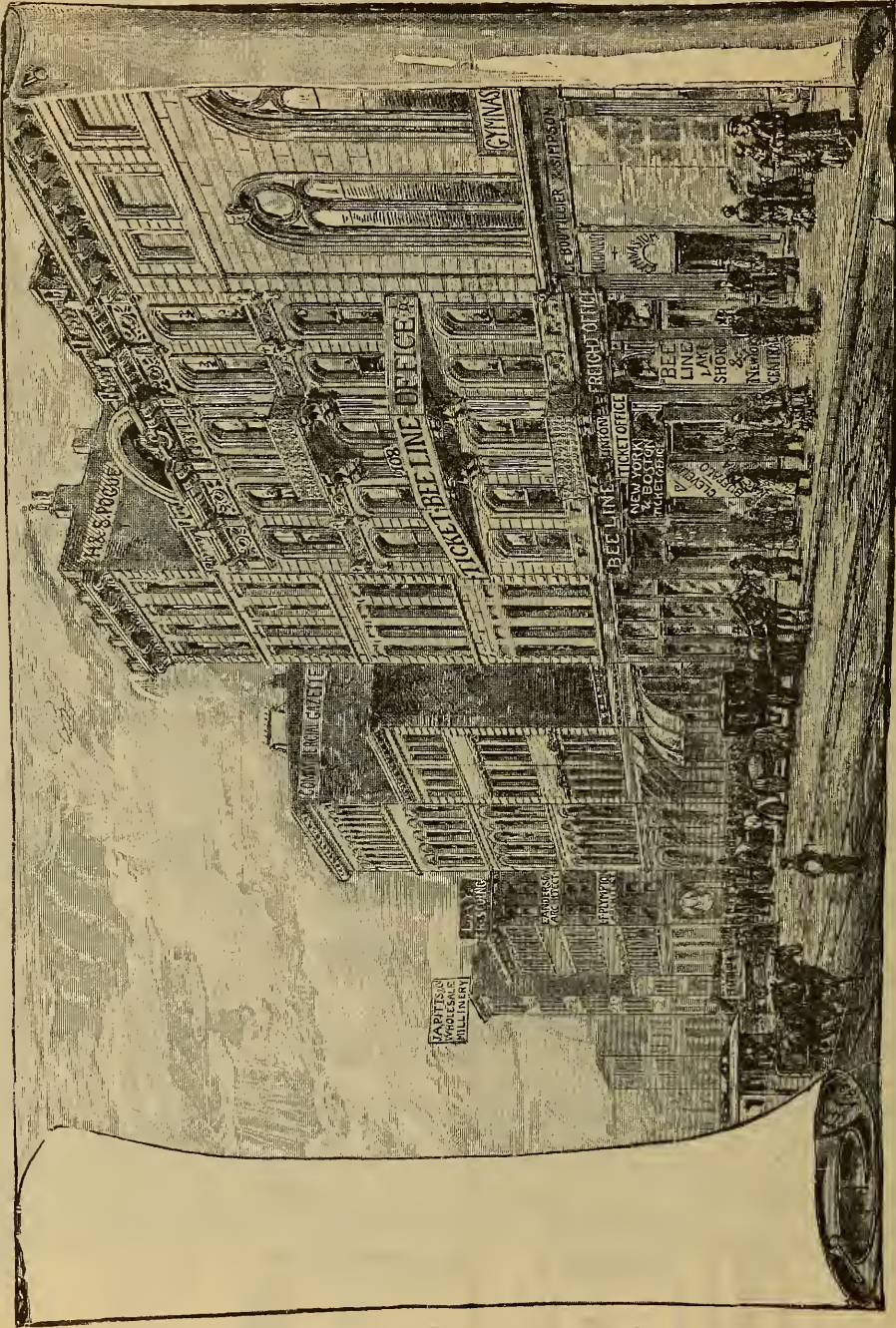
14 Water-St.
Cincinnati, O.

BUTTER JARS.

JARS.

14 Water Street, CINCINNATI, O.

W. NORMAN-CINCINNATI, O.



FOURTH STREET bet, VINE and RACE.

—THE—

E. D. ALBRO COMPANY,

Importers of

MAHOGANY.

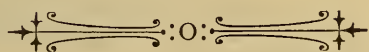


MANUFACTURERS OF

Veneers and

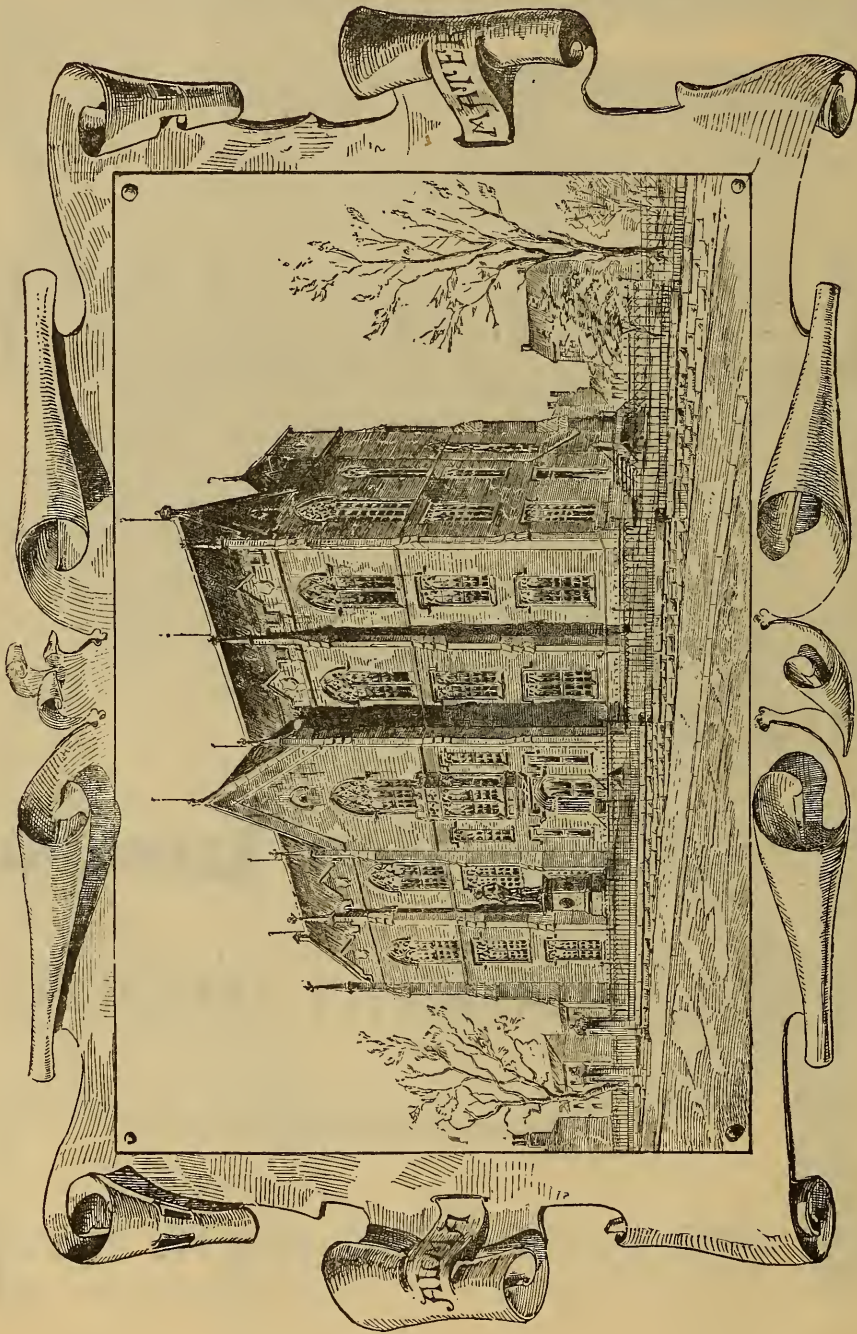
Cigar Box Lumber.

FANCY CABINET WOODS.



Nos. 685 to 711 West Sixth Street,

CINCINNATI, OHIO.



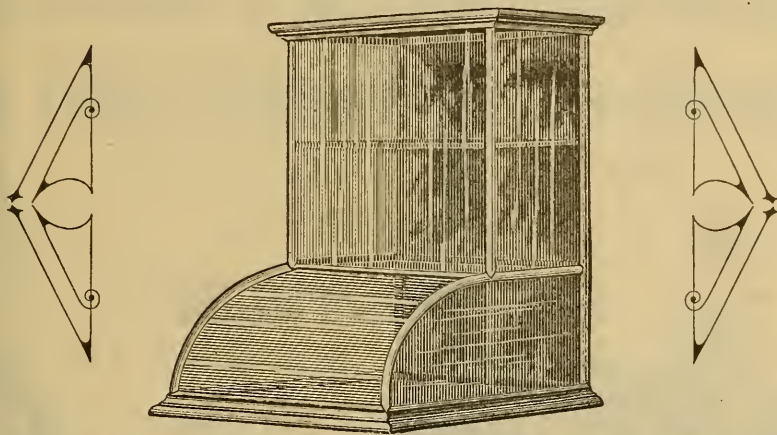
WOODWARD HIGH SCHOOL.

Schmitt & Co.

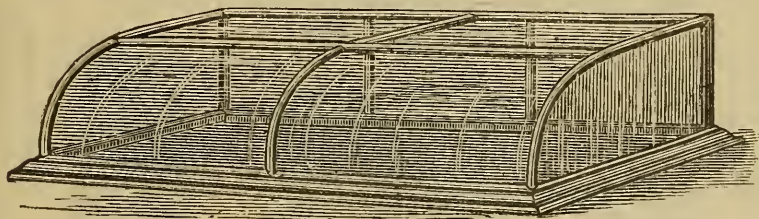
Successors to { SCHMITT, WIEGEL & CO., Established 1876.
L. WIEGEL & CO., " 1867.
SCHMITT and BRO., " 1851.

55 AND 57 MAIN ST., CINCINNATI, O.

...MANUFACTURERS OF...



SHOW CASES,



AND STORE AND OFFICE FIXTURES,

—FOR—

Banks, Drug Stores and Bar Rooms.

Send for Catalogue.



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L. J. MILLER,

GEO. JOHNSON,

Miller & Johnson,

HARRISON AVE.,

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..-->Manufacturers of<--..

Johnson's Patent Improved
Steam Power Hydraulic & Hydro-Pneumatic,
AUTOMATICALLY ADJUSTING,
CHANGEABLE LIFT PASSENGER AND FREIGHT
ELEVATORS.
SEND FOR CIRCULARS.



Nonpareil Reversible Motion Crushing and Grinding Mills, for
Ear Corn, Shelled Corn, Oats, or any kind of Small
Grain, also Coffee, Spices, Roots, Drugs, Bones, &c.

→* COTTON SEED HULLERS AND SEPARATORS.*←

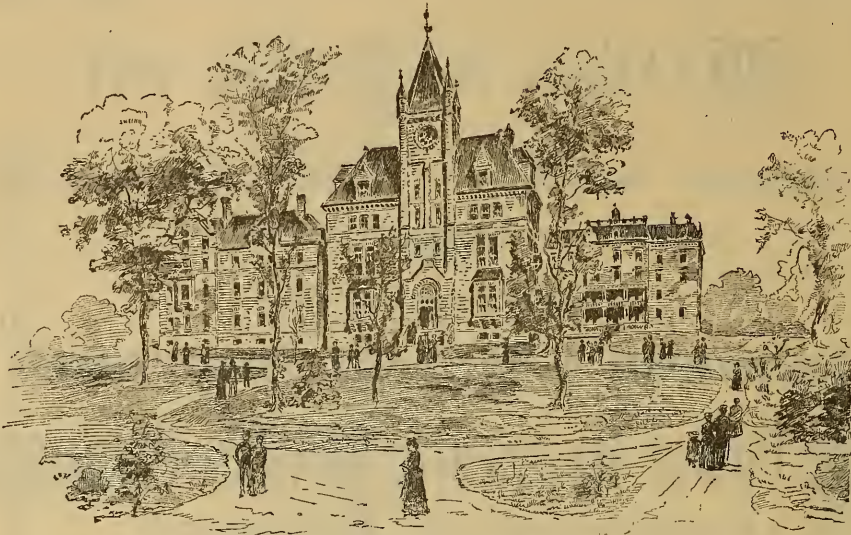
Conical French BURR MILLS, and all kinds of Mill Machinery.

Send for Illustrated Pamphlet and Price List.

L. J. MILLER,

HARRISON AVENUE,

CINCINNATI, OHIO.



LANE THEOLOGICAL SEMINARY.

ASK YOUR GROCER FOR THE
STAR OR EAGLE
Vermicelli, Macaroni, or Segethe,
(EGG NUDELS.)

THE BEST AND FINEST IN THE MARKET FOR
Soups and Dessert.

THE BEST AND CHEAPEST FOR HOTELS AND FAMILY USE.

MANUFACTURED ONLY BY

E. H. STRIETELMEIER,

625 Elm St., Cincinnati, O.



From W. E. Dibble & Co.

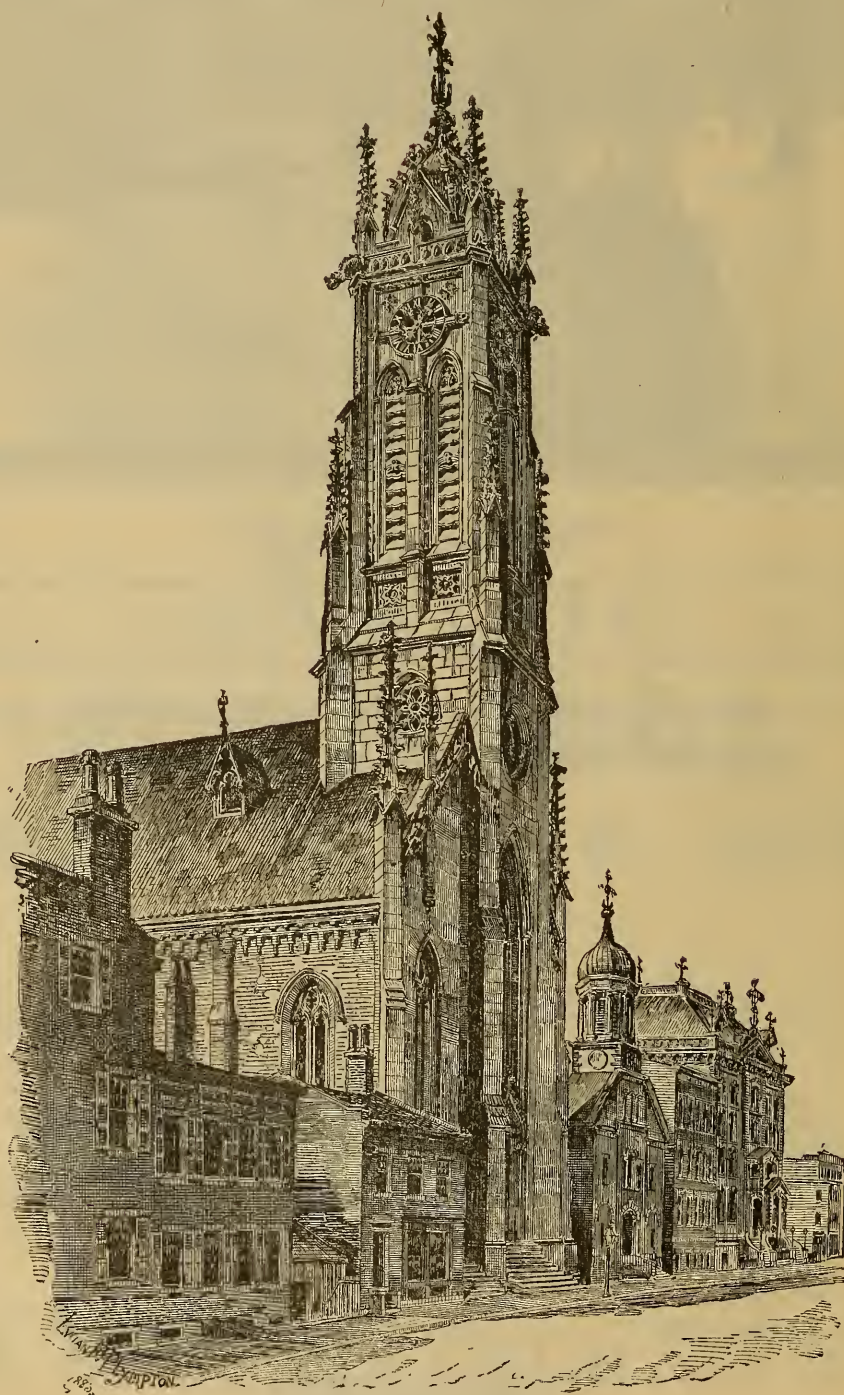
Poetry and Art.

We were awarded three Silver Medals for the Best Display,
Mechanical Work, and for Artistic Designs.



R. J. McFEE.
GEO. MEINSHAUSEN.

CINCINNATI, O.



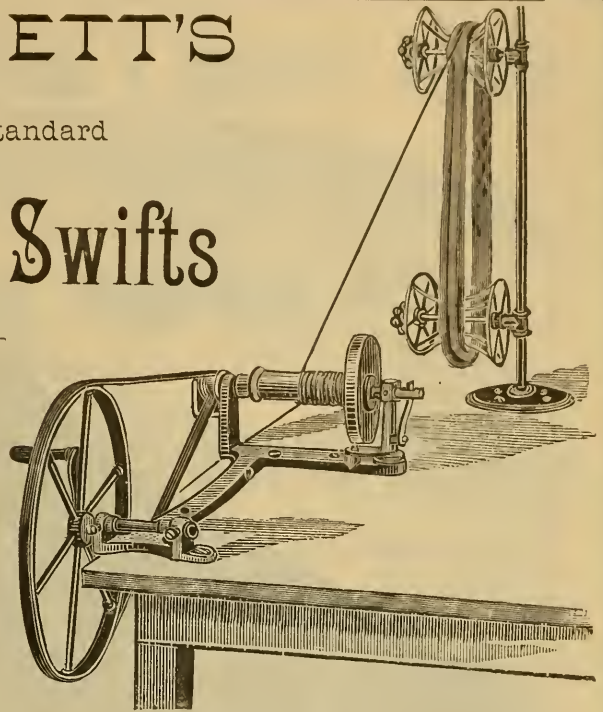
ST. FRANCIS XAVIER CHURCH.

G. H. BENNETT'S

United States Standard

Winder and Swifts

Showing Winder
Swifts and Yarn in
position.



TO HOSIERY MANUFACTURERS,

and all others having yarn to wind, I would say that I have for the last three years been engaged in repairing all kinds of Knitting Mill Machinery, and having heard a general complaint about the utter worthlessness of every thing in use for winding yarn by hand, that they were slow and always out of order, etc.

Seeing a necessity for a good Winder and Swifts, that would be rapid in winding and durable in construction, I have invented and am now manufacturing a reliable WINDER AND SWIFTS that has been thoroughly tested by the hosiery men of this city, who have given their names to the certificate herewith presented. This winder is light, strong and durable, made of iron, steel and brass, with removeable brass bushings, in all wearing parts, main wheel wrought iron, 20 inches in diameter, steel arbors throughout. Detached straight spindle swings round with monitor head to change spools.

My Swifts are entirely satisfactory to all who have tried them. The spools are made from spring steel wire, and will retain their shape. You can wind for six of the fastest knitting Machines with one of my Winders and Swifts, and they will save their cost in labor above all others in three months, and will last many years.

Price of Winder, \$10.

Price of Swift, \$2.50.

We, the undersigned, hosiery manufacturers, Cincinnati, Ohio, have in use G. H. Bennett's United States Standard Winder and Swifts, and would recommend them to hosiery manufacturers and all others having yarn to wind, to be superior to all others we have seen.

JACOB AMLUNG,

M. WUEST,

C. H. WUEST & Co.,

QUEEN STOCKING Co.,

M. & A. ISAACS,

A. ROSENTHAL & Co.

All parts of these machines are made in duplicate, and can be sent by mail when needed for repairs.

AGENTS WANTED, AND THE TRADE SUPPLIED.

G. H. BENNETT,

N. E. Cor. Elm and Longworth Streets, CINCINNATI, O.



PALACE HOTEL.

Cincinnati & Artificial & Stone & Works.

510 PLUM ST., CINCINNATI, O.

FRANK BAUER,

—Manufacturer of—

Pat. Manger Feeding Horse Trough,

WATER & BAKE TROUGH. PICKLE TUB & MILK COOLER,

IMITATION FREE AND BROWN STONE,

For House Fronts, Door and Window Caps, Stoops, Water Tables and Sills. Tiles for Pavements, Gutters and Droop Stones laid in all colors and patterns.

Also Watertight Cellars, Reservoirs, Bath-Tubs, Basins to Fountains, Sewers, Drains, Monuments and all other Cement Work. Jobbing and Repairing promptly attended to and warranted to give satisfaction.

THE

Composition Manger Feeding Trough,

Has the following excellencies over any other device for serving feed to animals in stalls or mangers. Especially to horses and animals of the horse kind.

It is made from English Portland Cement and other ingredients and therefore cleanly.

If any slobbers or other unclean substance should by accident or design, get into the trough, it is easily and thoroughly cleansed by the use of water only, avoiding the necessity of any disinfecting agent, as the invention is not an absorbent, and need not be destroyed, as is frequently necessary in the use of wooden troughs.

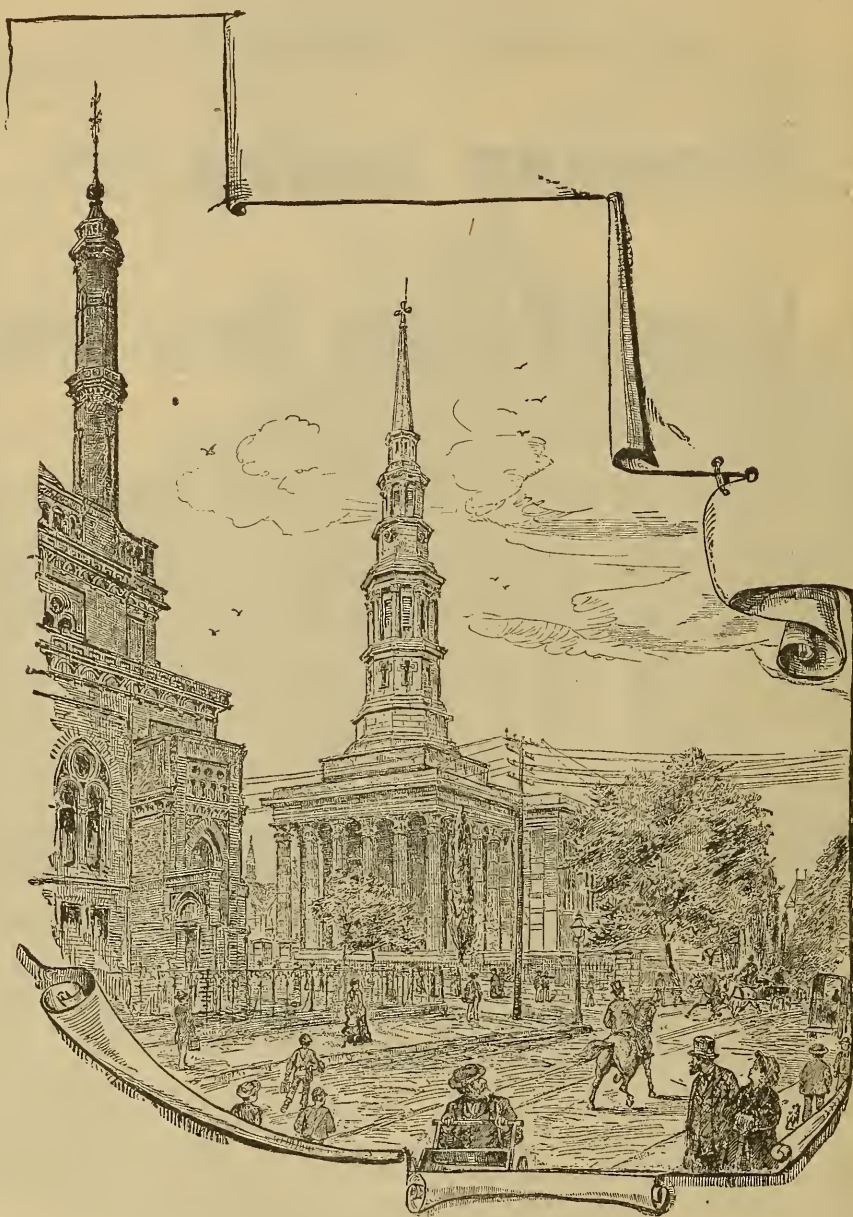
Horses are almost universally given to *biting* the feed trough, and in many instances producing the ruinous habit of *stump sucking*: This device the animal never attempts to bite and cannot learn the habit. And those that have been spoiled by the use of the old trough, may, by the use of this invention forget their former ruinous practice.

There are no iron straps on the edge of the trough to break, injure or destroy the teeth.

Another excellency of my invention is, that the trough being round no animal can hurt itself by laying down or by rising, and none of the feed can get lost as it does not rot.

This invention can easily be applied in any stable, or substituted where the old ones are now doing their injury. And its cheapness together with its sanitary and other virtues recommend its use in every stable where the value of the horse is appreciated.

Frank Wulke, Sole Agent, 382 Elm St.



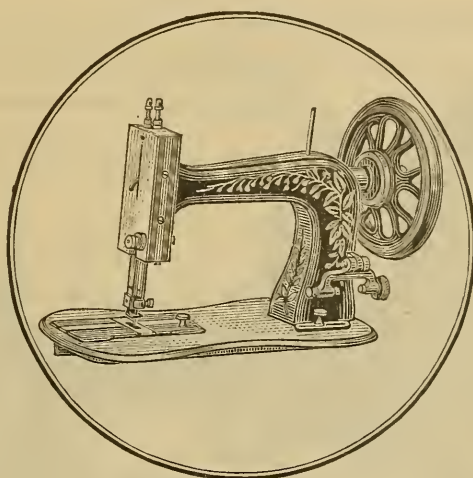
St. Peters Cathedral, Eighth & Plum Sts

☼ The Queen City ☼

SEWING MACHINE CO.

CINCINNATI, O.

U. S. A.



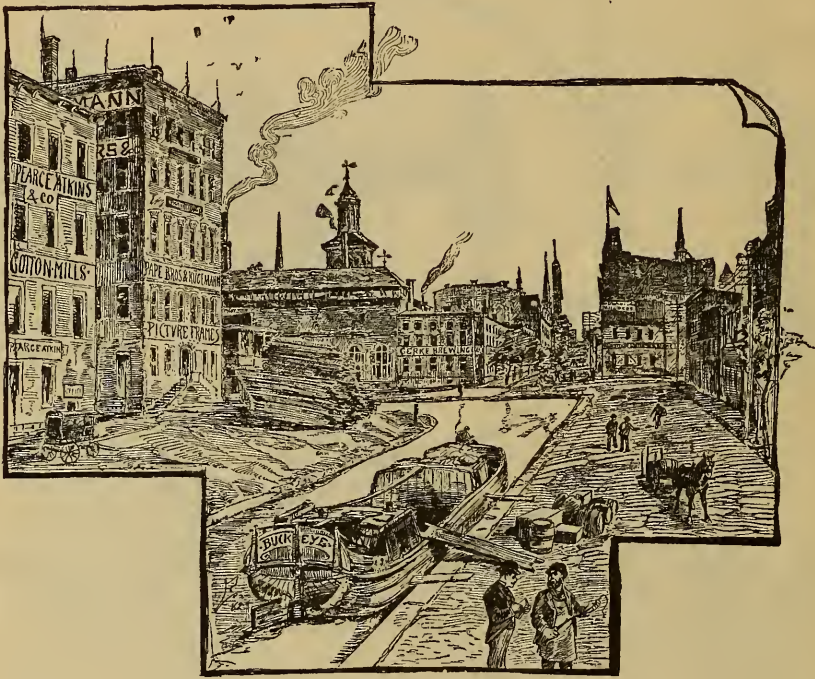
—MANUFACTURERS OF—

THE "CINCINNATI"

Sewing Machine.

—AGENTS WANTED IN ALL UNOCCUPIED TERRITORY.—

The "Cincinnati" received the Gold Medal for best Machine and Bronze Medal for best work at the Cincinnati Exposition of 1883.



VIEW ON THE MIAMI CANAL.

ESTABLISHED 1857.

C. DIERINGER, COOPER,

South-West Corner McMicken Ave, and Browne St.,
AND 107 MOHAWK AND 22 BROWNE ST., NEAR MOHAWK BRIDGE.

—ALSO,—

Nos. 87, 89, 91 and 93 Browne St., CINCINNATI, O.

FIRST PREMIUM AWARDED FOR

Casks, Fermenting Tubs, Barrels and Kegs,

AT THE CENTENNIAL EXPOSITION, PHILADELPHIA, 1876.

HOGSHEADS, BARRELS,
HALF BARRELS
AND KEGS, MASH and
FERMENTING
TANKS,



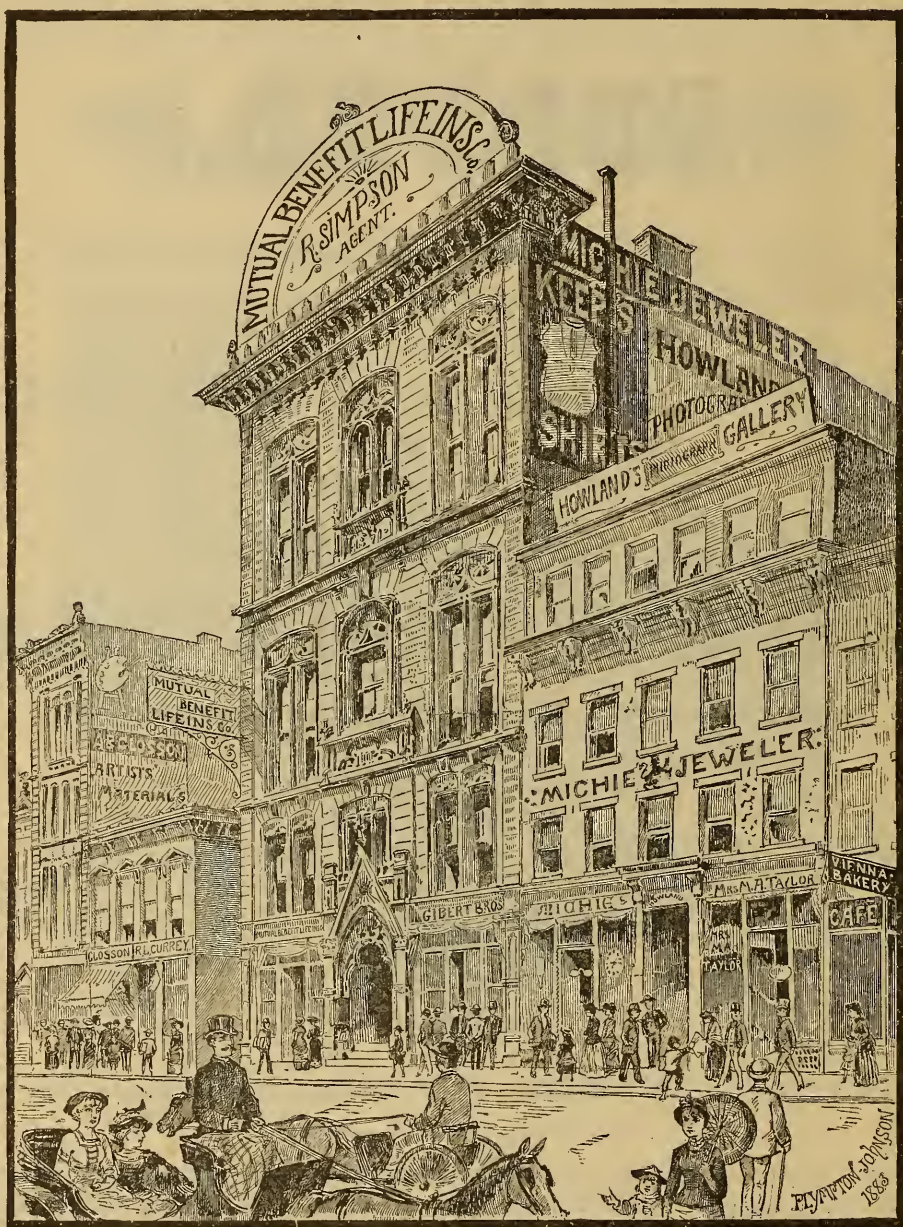
STORAGE CASKS,
VATS, and TANKS,
of every size and
description.

ALL WORK GUARANTEED.

All large Casks, $\frac{1}{2}$ barrels, $\frac{1}{4}$ and $\frac{1}{8}$ barrels, made out of best quality of split white oak staves. All Tubs made to order from red cedar, white cedar, white oak, white pine and cypress, as may be desired, of all shapes and thickness, for use as Mash Tubs, Fermenting Tubs, Hot and Cold Water Tubs, Beer Tubs, etc., used by Brewers, Wine and Liquor Dealers.

REFERENCES—Leading Brewers and Wine and Liquor Dealers of the United States.

ALL WORK HAND-MADE.



ODD FELLOWS BUILDING, FOURTH STREET.

H. B. WELLS.

R. M. BISHOP, JR.

CHAS. W. BELL.

Cincinnati Tin and Japan Co.

ORGANIZED IN 1862.

IMPORTERS AND DEALERS IN

TIN PLATE AND METALS.

Japanned,
Plain and
Stamped
Ware,



And
Tinner's
Supplies.

Nos. 83 and 85 WALNUT STREET,

Bet. Pearl and Second Streets,

CINCINNATI, O.

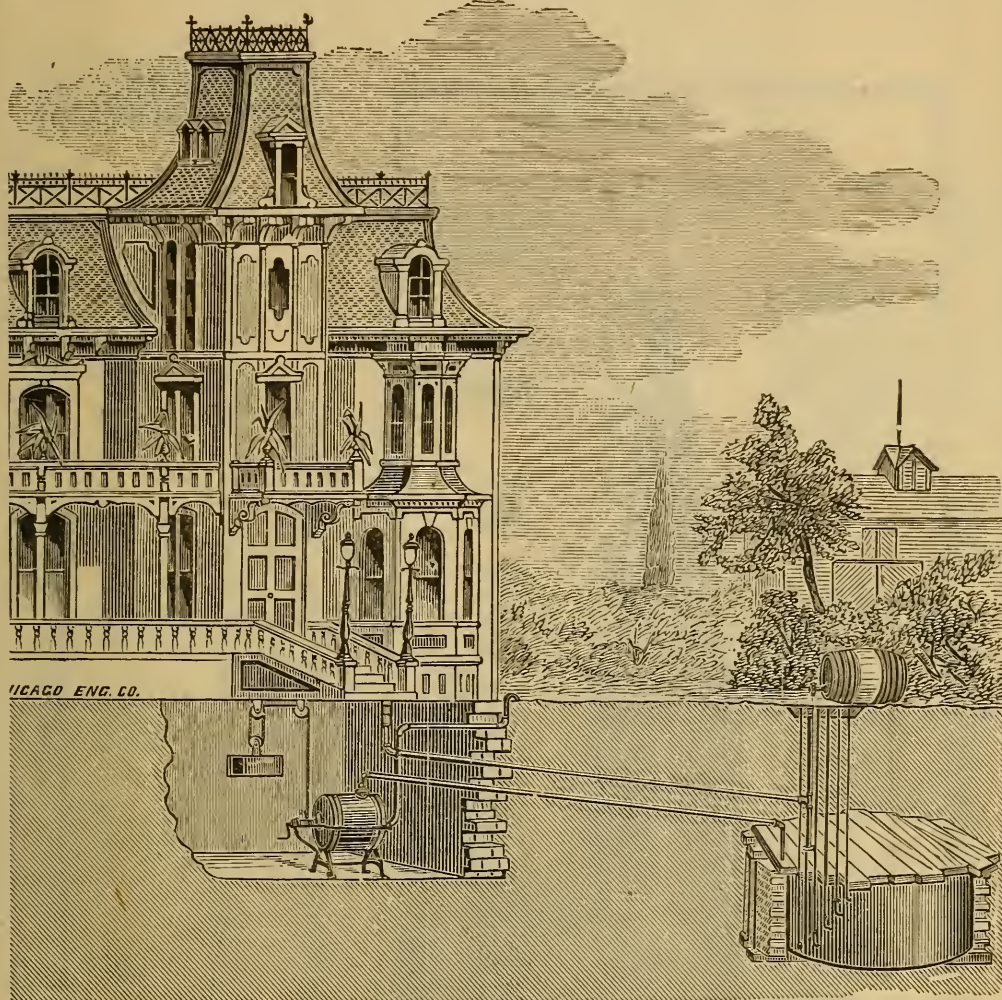
We keep a general assortment of goods in our line. Call and see us, or send for Price List.

NOTE.—We were awarded THE THREE HIGHEST MEDALS at the ELEVENTH CINCINNATI INDUSTRIAL EXPOSITION, held in Cincinnati, 1883, for MANUFACTURED WARES.

Our new quarter enables us to handle orders with dispatch and at lowest market prices.



ODD FELLOWS MONUMENT.



— THE COLEMAN —
Pneumatic Gas Machine,

PATENTED APRIL 23, 1872.

THE SAFEST, CHEAPEST, AND MOST RELIABLE APPARATUS MADE
FOR LIGHTING
COUNTRY AND SUBURBAN RESIDENCES, CHURCHES, SEMINARIES, STORES,
HALLS, ASYLUMS, etc.

*It produces a Gas equal, if not superior to Coal Gas, at less than \$1.20 per
Thousand Feet.*

Received Silver Medal at Michigan State Fair 1872, also Bronze Medals at Cincinnati
Exposition of 1880 and 1883. We refer to the hundreds in use in all parts of the country.

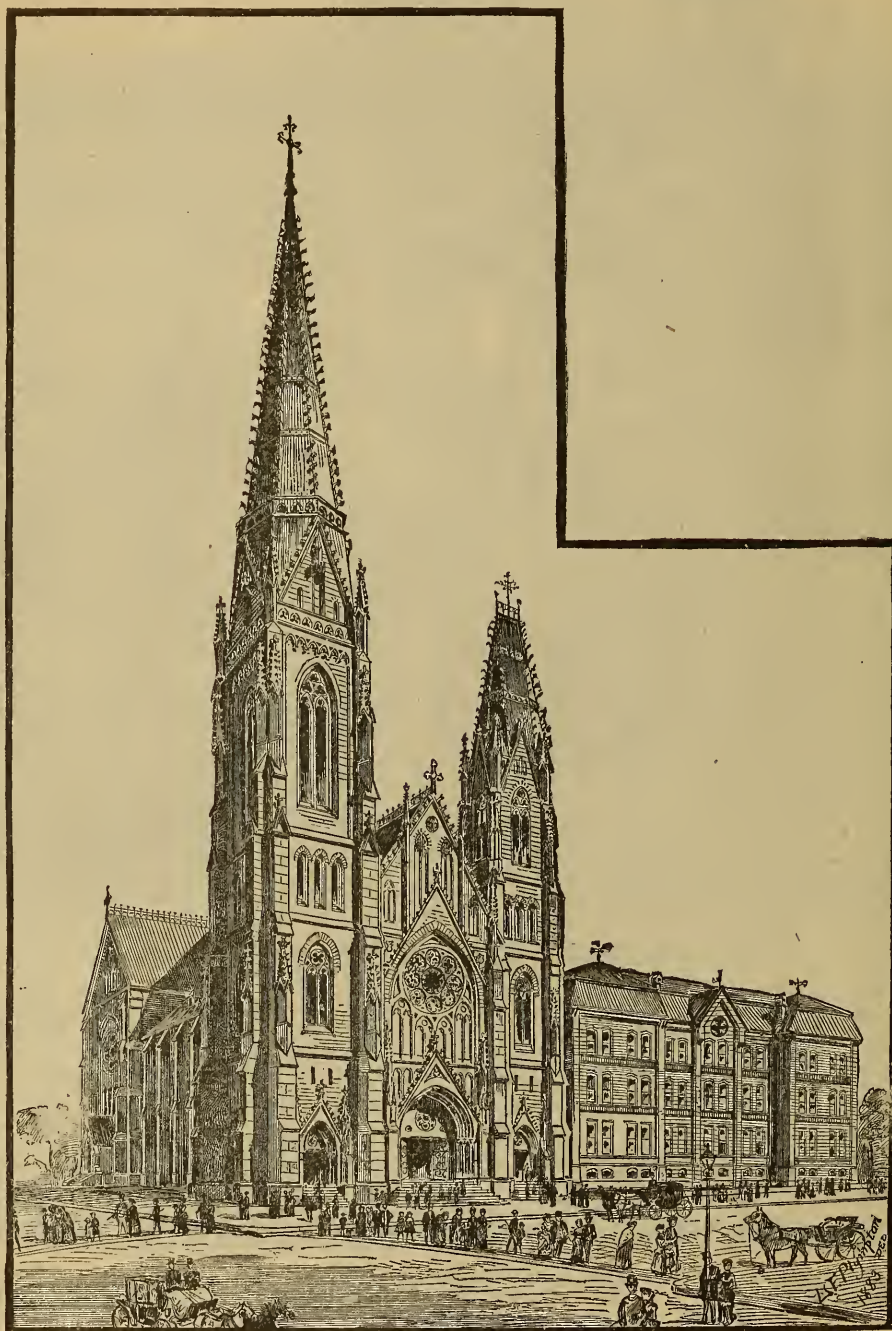
SEND FOR OUR DESCRIPTIVE CIRCULAR.

— Manufactured and sold by the —

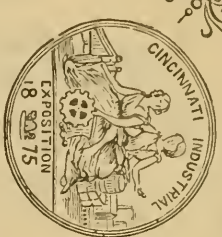
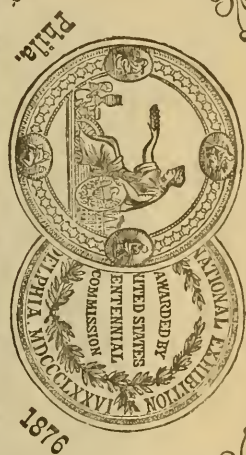
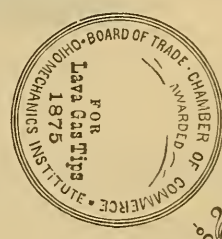
—* COLEMAN GAS WORKS MANUFACTURING CO.*—

OFFICE & MANUFACTORY: 292 MAIN STREET,

CINCINNATI, O





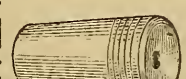

ST. FRANCIS DE SALES CHURCH,

PATENT STEATITE
ANTI-CORROSIVE AND UNCHANGEABLE

LAVA GAS TIPS,

MANUFACTURED BY
THE D. M. STEWARD MFG. CO.
CINCINNATI, O.

PATENTED DEC. 31st, 1867. | GOLD MEDALS AWARDED.



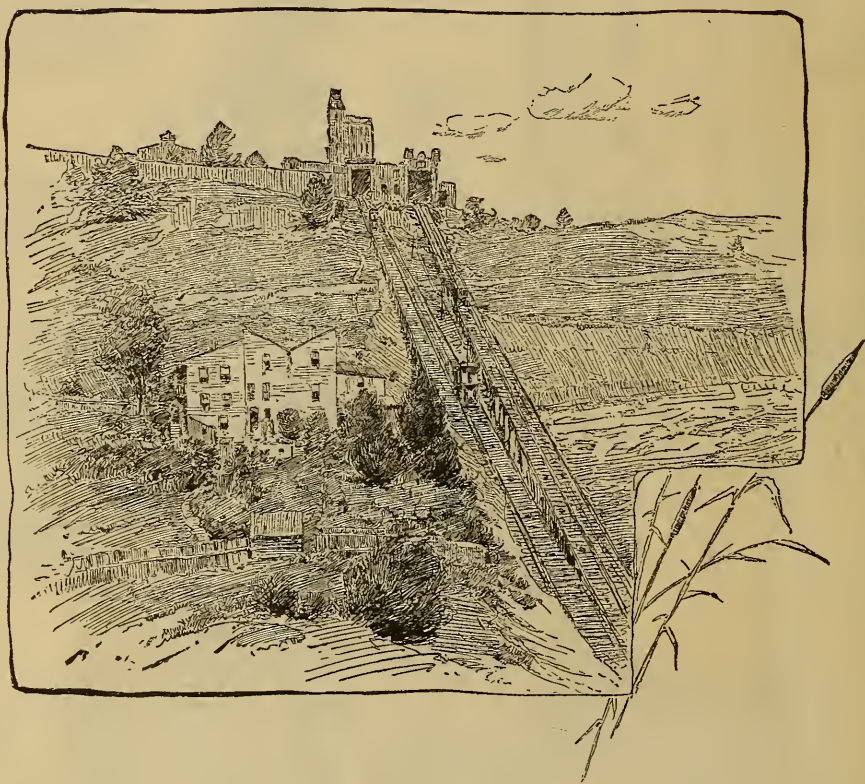
Lava Gas Tips, Lava Electric Indulators, Tailors' Chalk,
AND ROLLING MILL CERAMICS.
Metal Workers' Crayons,
State Pencils,
Boot Powder,
Mineral Tallow,
Soap Stone Laundry Tubs,
Stove Linings,
Grate Settings,
Soap Stone Griddles,
Steward's Refrigerators



Office and Works, 231 State Avenue,

CINCINNATI, O.

These Tips produce from 12 to 20 per cent. more light with same amount of Gas, than any Burner, checking in or at the base of the pillar.



PRICES HILL INCLINE.

* CINCINNATI *

WOVEN WIRE MATTRESS,

416 and 418 Central Avenue,

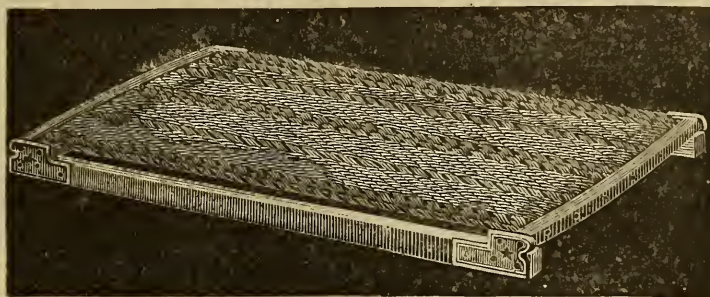
CINCINNATI, O.

THE BEST IN THE WORLD.



—*First Premium awarded over all Competition!*—

WARRANTED FOR 25 YEARS.



Retail Price, \$7.

Send for Catalogue and Price List.

— **FACTS.** —

This Mattress is the most elastic and durable. Never stretches or sags. There is no lodgement for vermin or dust. Will not retain the germ of disease. Requires no bedding in summer but two quilts and sheet, and in winter but a light mattress. It is PERFECTLY NOISELESS, and will last a lifetime. Will stand a strain of 1,500 pounds.

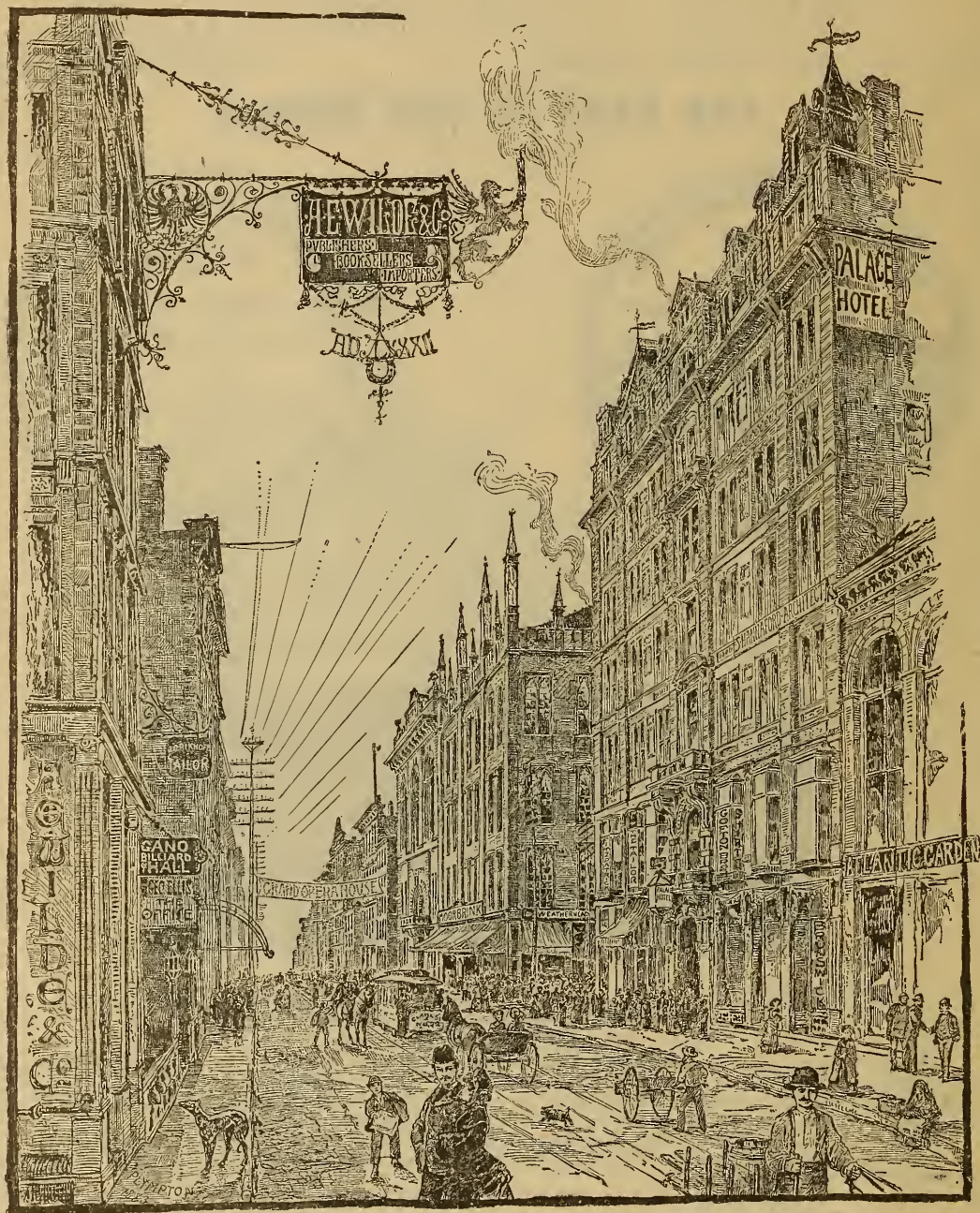
We will give \$100 for any other weave of Wire Mattress that will stand the same test.

In ordering mattresses give the length of slat, thickness of block in four corners of bed, and length of side rails.

Call at office and see the Mattress that has been in constant use for over 20 years, and is now as good as when new.

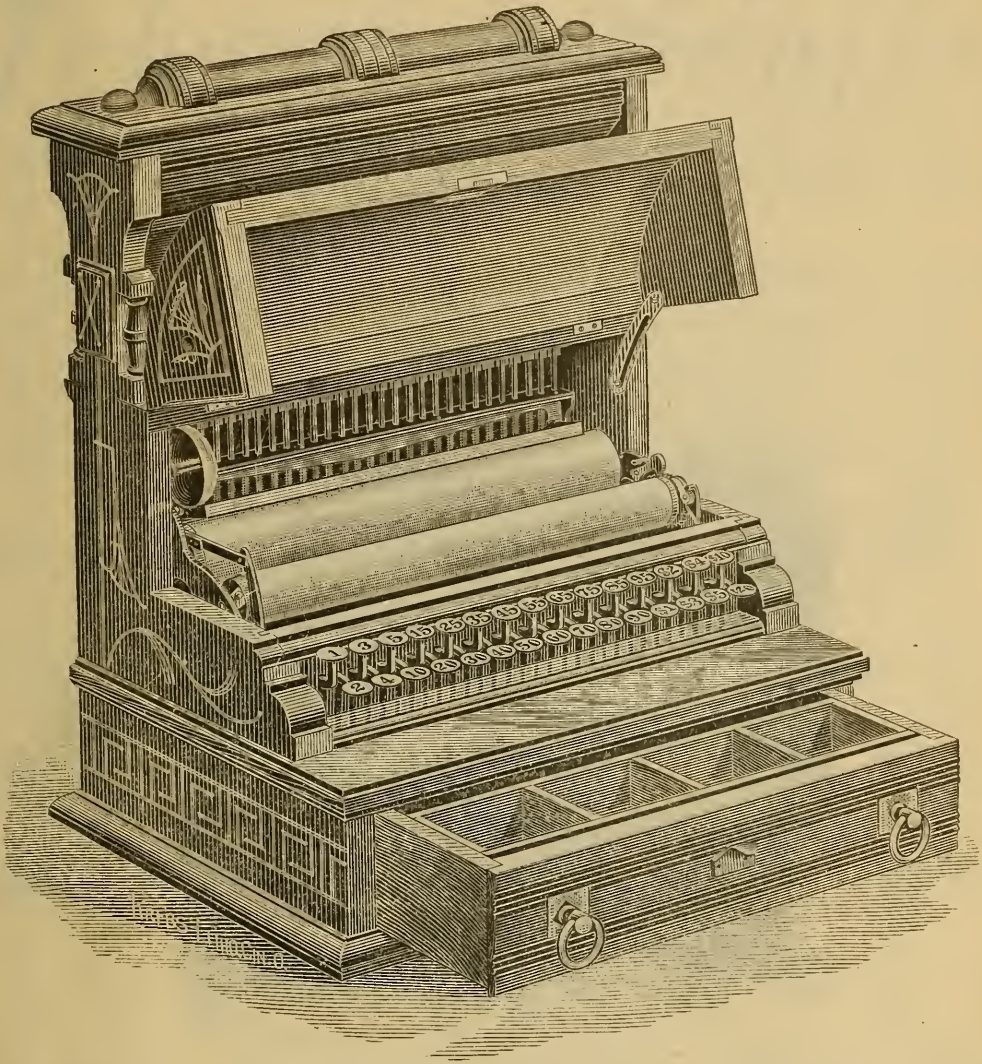
Do not be deceived by a Knit Weave Mattress.

Beware of parties who claim they manufacture the Woven Wire Mattress. We are the only and original manufacturers west of the Alleghanies; all others assuming the name are doing so on account of our mattress being so well-known throughout the world as being the *best* on the market. We refer you to over 2000 references.



VINE STREET, bet. SIXTH & SEVENTH.

National Cash Register.



ADAPTED TO EVERY BRANCH OF BUSINESS.

For Price List and Circular, address,

THE NATIONAL M'FG CO.
DAYTON, O.



LOOKOUT HOUSE INCLINE.

P. LORILLARD & CO.'S Tobacco and Snuffs.

PLUG.

CLIMAX.
RED CROSS.
Tomahawk.
BULLION.
Sailors
Delight.
Mechanics
Delight.
CATAWBA.
Bright
Magnolia.
Dark
Magnolia.
B. B.

NOTE.

That our Red Cross Pounds in single box lot, will give the retailer a profit of 27½ cts. per pound, and will give the consumer perfect satisfaction.

TRY IT.

B. B.

Is the best cheap piece of Goods in the market.

White Filler, Rough and Ready Mahogany Wrapper.

Pays a good profit and sells readily.

IT HAS NO EQUAL.

FINE CUTS.

ROSE LEAF.
Hearts-ease.
CAP SHEAF.
Dandy Jim.
CORN FED.
Pickaninny.
NO NAME.

—:o:—

SMOKING.

GOLDEN
CUPID.
Sweet
Conqueror.

SNUFFS

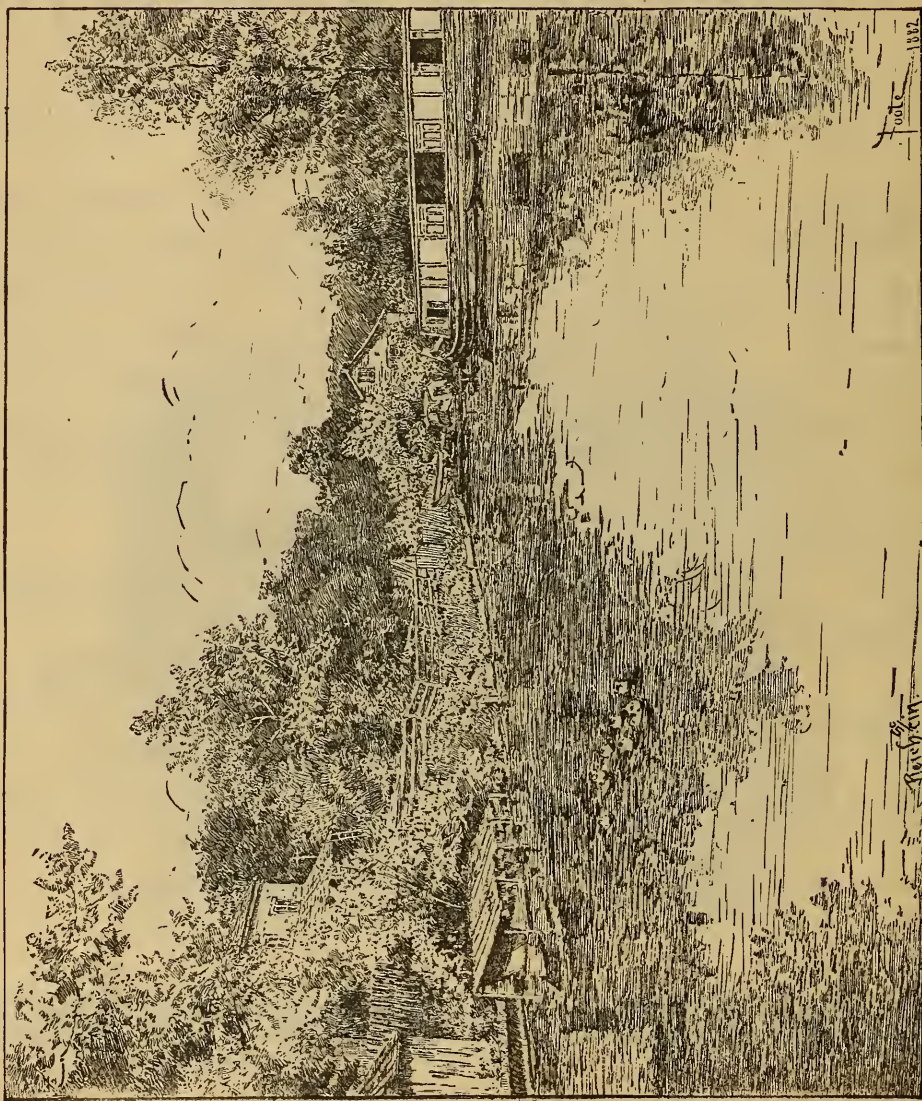
Maccoboy, Rappee, Scotch, Honey Bee Scotch.

H. BARKER & CO.

AGENTS,

62 West Second Street,

CINCINNATI, O.

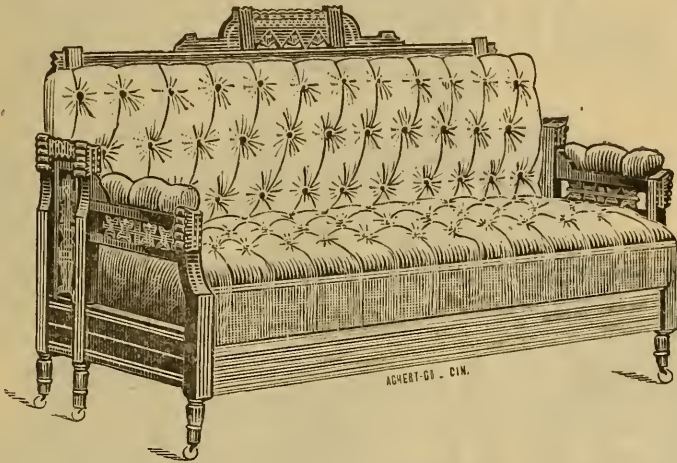


Canal near Clifton.

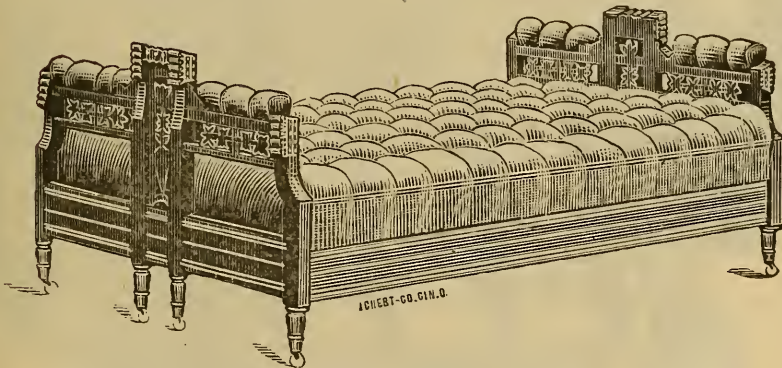
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1862

H. C. C.

HOVER'S SOFA : BED,



AS A PARLOR SOFA.



AS A BEDSTEAD, WITH HAIR & SPRING MATTRESS,

THIS BED

Has a Bureau that will hold Bolster, Pillows, and all the necessary Bed Clothing. The Mattress comes off, and the Bedstead unscrews. This gives greater advantage over all other Sofa Beds, in keeping it free from insects. None other can be kept clean. No hard ridge in the center of this bed. Is not complicated. Does not get out of order. For simplicity, elegance and durability is the best Sofa Bed in the world.

SEND FOR CATALOGUE AND PRICE LIST.

H. F. HOVER, PHILADELPHIA. PA.

POLLOCK & McCANN, Western Agents, Cincinnati, O.

Fourth Street, bet. Vine and Walnut.

E. W. WRIGHT,

—MANUFACTURER OF—

Shoe, Harness & Lithograph

DIES.

GRINDING and POLISHING,

196 East Front Street,

CINCINNATI, OHIO.

We manufacture a superior quality of Dies, for Boots and Shoes, or any part of the same.

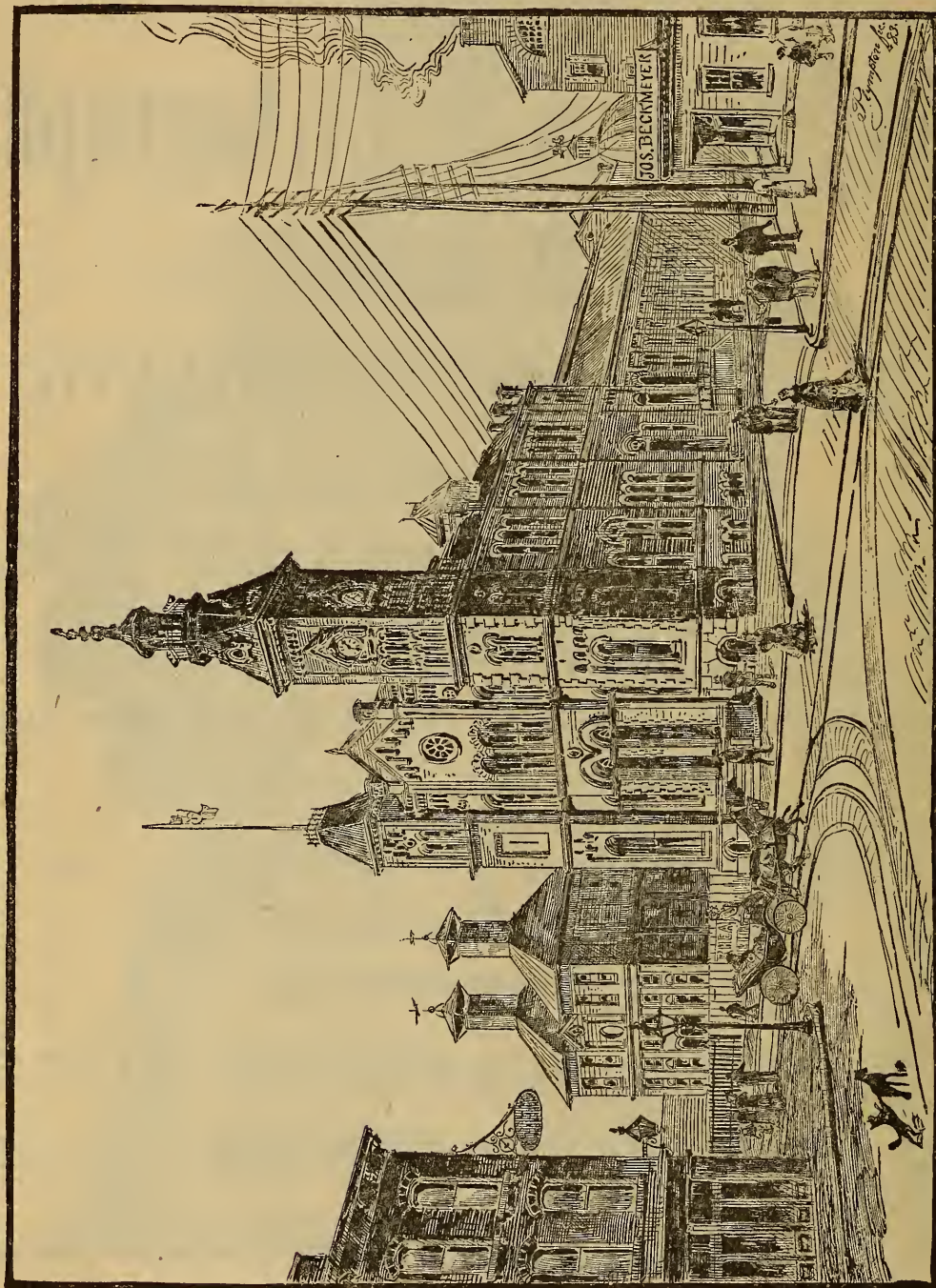
Lithograph Dies of every size and description, from the smallest Label to the largest Card or Paper.

Harness Dies of all sizes and shapes, for cutting out any part of Harness Work, whether Machine or Hand Made.

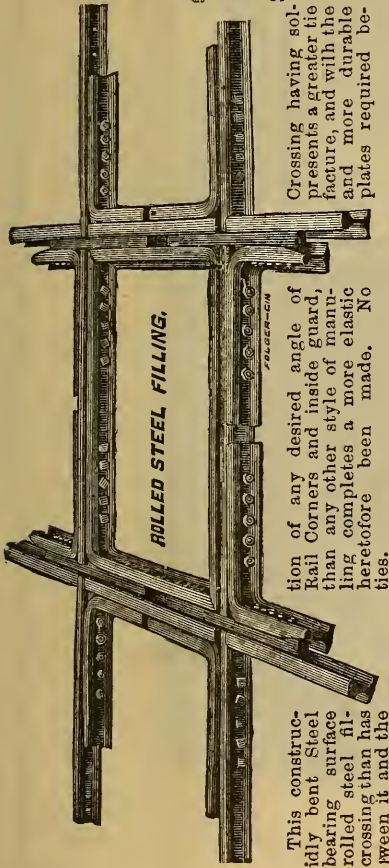
All hollow Dies, to order of any description, in leather or paper work. We make a specialty in this branch of trade and guarantee all orders to be promptly filled and well executed.

For further information, address,

E. W. WRIGHT, 196 E. Front St.



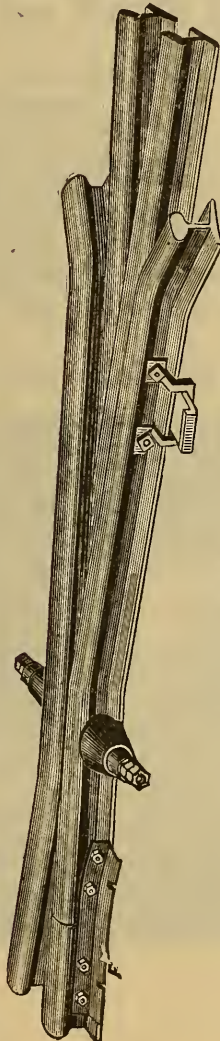
Cincinnati, Hamilton & Dayton Depot.



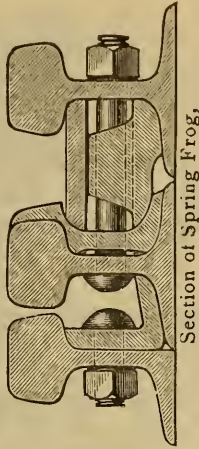
This construction of bent steel bearing surface rolled steel filling crossing than has between it and the

tion of any desired angle of Rail Corners and inside guard, than any other style of manufacturing completes a more elastic heretofore been made. No ties.

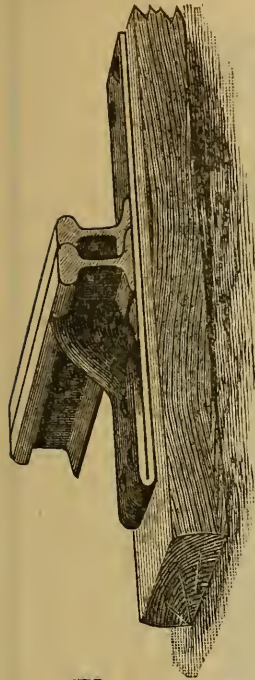
Crossing having sole presents a greater tie fracture, and with the and more durable be-



Spring Frog with Rolled Steel Filling.



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Section of Split Switch and combined Wrought Iron Rail Brace.



Wrought Iron Rail Brace.

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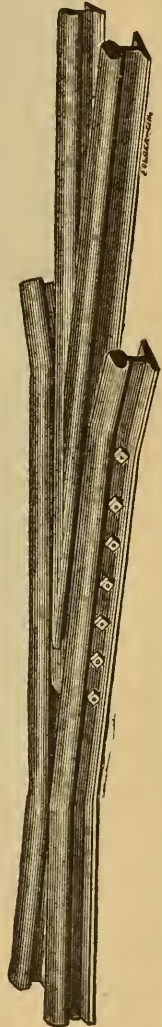
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Fred. C. Weir's Improved Steel Rail, Fixed and Spring Frogs, Split and Stub Switches, Wrought Iron Head Chairs, and Rail Braces, Switch Bars and Switch Fixtures, and the Nicholson Automatic Electric Block Signal. All parts made by machinery in dies and perfectly interchangeable. Photographs and estimates furnished on application.

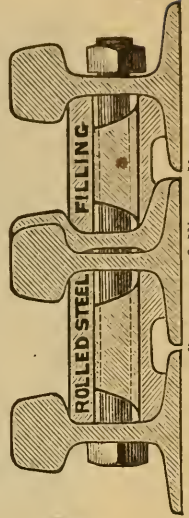
Address, *THE WEIR FROG CO.*

FRED. C. WEIR, PRES'D'T.

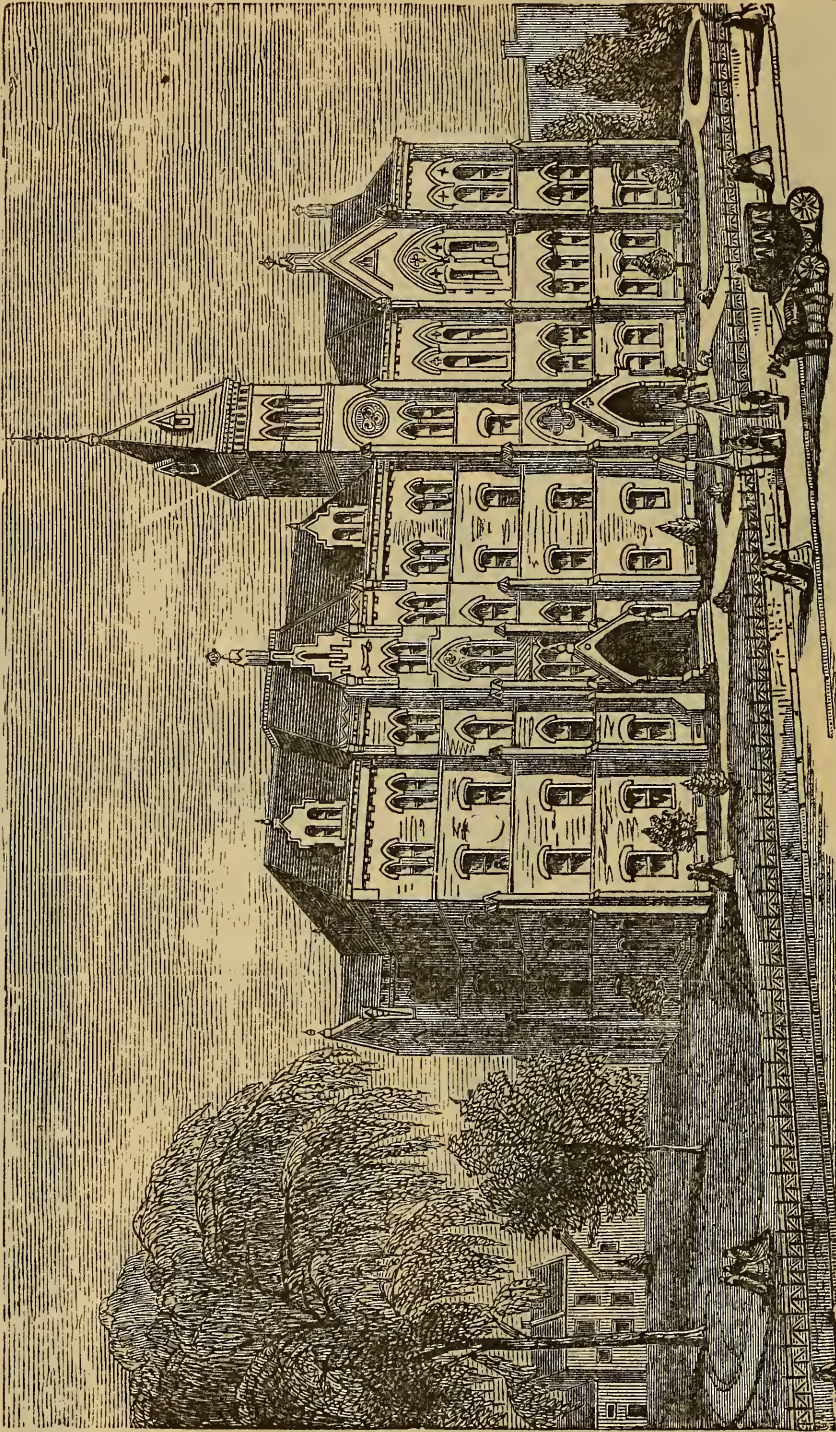
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Rolled Steel Filled, Fixed Frog.



Section of Fixed Frog.



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— THE —

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✱ Of Industry and Art. ✱

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1884.

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TWELFTH

Cincinnati Industrial Exposition.

—1884.—

OPENS SEPT. 3RD. CLOSES OCT. 4TH.

The Board of Commissioners of the TWELFTH CINCINNATI INDUSTRIAL EXPOSITION, invite the attention of the people of the United States and Foreign Countries to the *universal character* of the Exhibitions of Industry and Art that have been held in *Cincinnati* since 1870. These Expositions have, on account of their dignified character and real worth to the commercial interests of our country, commanded the attention and confidence of exhibitors and visitors from nearly every State and Territory of the Union. The Exposition of 1883 alone had exhibitors from twenty-nine States and four Territories, and numerous Foreign Countries, and was attended by 315,000 visitors.

The marked success that has attended the Cincinnati Expositions is owing, in a great measure, to their management. They have no stockholders, no dividends, and no private interests to subserve.

They are managed for and in behalf of the Citizens of Cincinnati, who guarantee all expenses by a Popular Guarantee Fund. The direct control is submitted to a Board of Fifteen Commissioners, five of whom are appointed respectively by the Ohio Mechanic's Institute, Board of Trade, and Chamber of Commerce.

The exhibition of Machinery in operation, and the display of Manufactures and Works of Utility and Art, are features of great novelty and beauty. Floral Hall and the Department of Horticulture are attractions unrivaled; the grand Cascade, the Brook, and rare vegetation, present an effect equaled only in the great Conservatories of Europe. The costly collections of Paintings, Statuary and Art Reproductions, are of high merit and will be of particular interest to the visitor.

Arrangements have been made for the cheap transportation of articles for the Exposition from all parts of the country, and for their removal from the depots and wharves in this city to the place of exhibition with safety and at low rates.

The Hotels and Restaurants will charge only their regular rates during the Exposition. There are ample accommodations for all visitors.

There will be reduced rates of fare, and excursions on all the Railroads radiating from Cincinnati.

The Government will open a Postoffice in the Exposition Buildings. Exhibitors and visitors can send and receive their mail direct, without delay. A Telegraph office will also be in operation.

TWELFTH

◉ Cincinnati * Industrial * Exposition. ◉

STANDING COMMITTEES.

EXECUTIVE.—Stevens, Walton, Kuhn, Dudley.

FINANCE.—McCammon, Wilson, Walton.

RULES, JURORS AND AWARDS.—Dudley, Livezey, Brooks.

PRINTING.—Walton, Stevens, Kuhn.

SPACE.—Livezey, Dudley, Withenbury.

BUILDING.—Kuhn, Allison, Withenbury.

PRIVILEGES AND MUSIC.—Jacob, Hussey, Mehner.

FINE ARTS.—Mehner, Hussey, B. F. Ehrman, Harry Barker, A. L. Fogg.

MACHINERY AND APPLIANCES.—Smith, Walton, Allison, Walker, George A. Gray, L. H. Weisleder.

SCIENTIFIC AND EDUCATIONAL APPLIANCES.—Allison, Dudley, W. A. Collord, J. H. Feemster, J. B. Porter.

HORTICULTURE.—Hussey, Mehner, Jacob, J. A. Scarlett, E. E. Loy.

HOUSEHOLD FURNITURE, POTTERY AND ORNAMENTS.—Withenbury, Allison, Mehner, George K. Thompson, Geo. A. Vandegrift.

TOBACCOS, LIQUORS, PROVISIONS AND CEREALS.—Brooks, Mehner, David Banning, F. A. Laidley, Samuel W. Trost.

TEXTILE FABRICS AND ART NEEDLEWORK.—Wilson, McCammon, J. R. P. Brown, Jacob Menderson, Mrs. Wm. Dodd.

MINERALS, METALS, ETC.—Walker, Allison, Dudley, Smith, W. C. Herron.

❁ Extracts from the Rules and Regulations. ❁

The Twelfth Grand Exposition will be open for the reception of articles from Wednesday, August 13th, to Tuesday evening, September 2nd, 1884. Open to the public from Wednesday, September 3rd, to Saturday, October 4th.

Articles competing for Premiums must be receipted for by the Secretary, and the Entry Tags attached on or before September 3rd.

No charge will be made for space or power, but each exhibitor (except amateurs and exhibitors in the Fine Art and Natural History Departments) will be required to pay an entry fee of two dollars. An exhibitor competing for more than one premium (except in the Horticultural Department) shall pay two dollars for each additional premium competed for.

Articles for competition may be of *American or Foreign manufacture*, and entered by the Manufacturer or his agent, excepting those otherwise stated in the Premium List.

The Jurors for the examination of the Exhibits will be wholly disinterested. It is the desire of the Commissioners to make the awards worthy of, and in keeping with, the honorable record achieved by the eleven previous Expositions.

Neither the Board nor the Jurors will be pecuniarily liable to Exhibitors who may have failed to secure awards, nor because of awards made to their competitors.

All Premiums awarded will be for first degree of merit only (except in the Horticultural Department.)

Applications for space may be made at any time, and should be made as early as possible.

Exhibitors are requested to enter their articles with the Entry Clerk, and procure their Class Tickets with the least possible delay, but not until the articles are received into the building.

Exhibitors shall circulate no advertisements, except as to their own business, and from their own space, except by permission of the Board. Exhibitors violating any rule of the Board shall have their license to exhibit revoked.

The driving engines will be in operation one week previous to the opening of the Exposition. All Machinery must be in running order, and all goods in position ready for exhibition, on Wednesday, September 3rd.

N. B.—For further information, see the General Rules and Regulations, which will be furnished on application.

Remember that the Twelfth Exposition Opens September 3rd, and Closes October 4th.

CLASSIFICATION.

THE FOLLOWING ELABORATE AND COMPLETE CLASSIFICATION ILLUSTRATES
THE VARIED CHARACTER OF THE EXHIBITS.

GOLD, SILVER AND BRONZE MEDALS, AND CASH PREMIUMS
ARE OFFERED IN THE DIFFERENT CLASSES.

DEPARTMENT A.

Machinery.

- CLASS 1.**—Stationary Motors and Appurtenances, including Engines operated by Steam, Air, Gas, or other Motive Power, excepting Water and Electricity.
- “ **2.**—Steam Generators and Appurtenances.
- “ **3.**—Locomotors, including Portable and Traction Engines, Railway Rolling Stock and Appurtenances.
- “ **4.**—Hydraulic Machinery, including Hand and Steam Pumps, Hydraulic Presses, Water Motors, and Machines for Elevating and Utilizing Water for Mechanical Purposes.
- “ **5.**—Metal-Working Machinery, Tools and Appliances.
- “ **6.**—Wood-Working Machinery, Tools and Appliances.
- “ **7.**—Printing and Paper Machinery, Tools and Appliances.
- “ **8.**—Leather-Working Machinery, Tools and Appliances.
- “ **9.**—Pneumatic Machinery, including Pressure Blowers, Power Fans, Bellows, Air Pumps, etc.
- “ **10.**—Laundry Machinery and Appliances.
- “ **11.**—Tobacco Machinery.
- “ **12.**—Marine and Submarine Machinery and Appliances, including Models of Vessels, Life-Saving Apparatus, Dredging Apparatus, Diving Bells, Snagboat Apparatus, etc.
- “ **13.**—Fire Engines, Fire Extinguishing Apparatus and Appliances, including Life-Saving Apparatus, Hose, etc.
- “ **14.**—Agricultural Machinery and Appliances.
- “ **15.**—Cane and Cider Mills, Sugar-Making Machinery and Apparatus.
- “ **16.**—Grist Mill Machinery, Grinding and Feed Mills, Grain and Flour Machinery and Appliances.
- “ **17.**—Miscellaneous Machinery and Appliances.
- “ **18.**—Textile Machinery.* [To be under the supervision and control of the Committee on Textile Fabrics, and exhibited in connection with that Department.]
- “ **19.**—Special Manufacturing Machines.

DEPARTMENT B.

Minerals, Metals, Railroad Supplies, Hardware, Stoves, Heating Apparatus, etc.

- CLASS 21.**—Crude Minerals, Metallic Ores, etc.
- “ **22.**—Pig and Bar Metal, Sheet Metals.
- “ **23.**—Saws, Bells, Nails, Wrought Metal Pipe, etc.
- “ **24.**—Metal Castings.
- “ **25.**—Railroad Supplies, including Track Appliances, Car Fittings, etc.
- “ **26.**—Ranges, Cooking Stoves, Culinary Apparatus.
- “ **27.**—Furnaces and Attachments, Heating Stoves, Steam Heating Apparatus, Ventilators.
- “ **28.**—Building and General Hardware.
- “ **29.**—Edge Tools and Cutlery.
- “ **30.**—Gas and Lamp Fixtures.
- “ **31.**—Plumber's Goods.
- “ **32.**—Manufactured Sheet Metal Goods.
- “ **33.**—Vehicles and Carriages.
- “ **34.**—Safes, Fire and Burglar Proof.
- “ **35.**—Scales, Measuring and Registering Devices.

DEPARTMENT C.

Tobaccos, Liquors, Provisions, Cereals, etc.

- CLASS 36.**—Leaf Tobaccos.
- “ **37.**—Manufactured Tobaccos.
- “ **38.**—Cured Meats. Provisions, Groceries, etc.
- “ **39.**—Confectionery, Canned Goods.
- “ **40.**—Wines and Liquors.
- “ **41.**—Cooperage.

DEPARTMENT D.

Household Furniture, Pottery and Ornaments.

- CLASS 42.**—Furniture and Upholstery.
 “ 43.—Picture Frames, Mirrors, etc.
 “ 44.—Billiard Tables, Amusement Apparatus.
 “ 45.—Wall Decorations, Paper Hangings, Screens, Shades, Tapestries, Curtains, etc.
 “ 46.—Miscellaneous House Furnishing Goods, Refrigerators, Water Coolers, etc.
 “ 47.—Wooden and Willow Ware, Wire Goods, Brushes, etc.
 “ 48.—China, Glass and Stone Table Ware and Ornaments, Stoneware Utensils.
 “ 49.—Ceramics, including Ornamental Tiles, Vases, Placques, Bas Reliefs, etc.
 “ 50.—Jewelry, Silverware, Bronzes, Statuettes, and Mantel Ornaments.
 “ 51.—Ornamental Wood Carving, Porcelain Painting, and Designing of Artistic Value by Amateurs.
 “ 52.—Musical Instruments.
 “ 53.—Clock, Watches, Britannia Ware, etc.
 “ 54.—Books, Stationery, Printing, Lithographing, Binding, etc.
 “ 55.—Grates and Mantels.
 “ 56.—Composition Stone, Terra Cotta, etc.
 “ 57.—Carpenters' and Stair Builders' Work.
 “ 58.—Plain and Ornamental Window Glass.

DEPARTMENT E.

—Textiles, Clothing, Etc.—

[Textile Machinery, including Silk and Ribbon Machinery in Operation, as special exhibits in this Department.]

**See Department A.—Machinery—Class 18.*

- CLASS 60.**—Dress Goods and Cottons.
 “ 61.—Carpets, Woolens, Yarns, Braids, etc.
 “ 62.—Bagging, Hemp, Cordage and Twine.
 “ 63.—Hats, Caps, Furs, Furnishing Goods, Clothing, etc.
 “ 64.—Dresses, Cloaks, Fancy Dry Goods, Millinery Goods, etc.
 “ 65.—Hair and Wax Work, Needlework, Embroideries, Painting on Silk and Satin, Kensington Work, Shell Work, etc.
 “ 66.—Boots, Shoes, Findings, Leather, Morocco, Rubber Goods, etc.
 “ 67.—Harness, Trunks, Traveling Equipage.

DEPARTMENT F.

—Scientific and Educational—

- CLASS 70.**—Chemicals, Drugs, Pharmaceutical Preparations, Oils, Paints, Dye Stuffs, Baking Powder, Yeast, etc.
 “ 71.—Chemical, Philosophical, Astronomical, Surgical, and Dental Apparatus.
 “ 72.—Industrial Applications of Electricity, Telegraphic and Telephonic Apparatus, Electric Motors Electric Lighting and Signaling Apparatus, Dynamo-Electric Machines, Electro-Plating Apparatus, etc.
 “ 73.—Gas-Making Apparatus, Distilling Apparatus, etc.
 “ 74.—Educational Appliances, School Room Apparatus, etc.
 “ 75.—Natural History, Archaeology, etc.

DEPARTMENT G.

Fine Arts.

- CLASS 76.**—Painting in Oil and Water Colors.
 “ 77.—Engravings on Steel, Copper and Wood.
 “ 78.—Etchings and Original Drawings.
 “ 79.—Sculpture in Marble, and Models in Clay or Plaster.
 “ 80.—Photographic, or Photo-Lithographic, or Heliotype Copies of Standard Works of Art.
 “ 81.—Photographs, Crayon Drawings, etc.

DEPARTMENT H.

Horticulture.

- CLASS 85.**—Plants, Trees, and Flowers.
 “ 86.—Cut Flowers, and Floral Designs.
 “ 87.—Fruits.



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